


Identificação	IT.SIN.013
Designação	Catálogo de Indicações do Sistema SSI – Mesas de Comando Local e CTC / CCO
Versão	01
Data	12.10.2009
Ficheiro	It_sin_013.doc
Classificação	EXT

**Aprovado pelo Sr. Director de Engenharia da Infra-Estrutura**



José Carlos Abrantes dos Santos Clemente

**Aprovado pelo Sr. Director Geral de Exploração da Infra-Estrutura**



José de Castro Cunha Alves Monteiro

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Versão: 01  
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Classificação: EXT

**Participantes na elaboração do documento normativo**

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Nuno Barrento	REFER	Engenharia - Sinalização
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**Histórico do Documento**

Versão	Descrição	Data
01	Versão Inicial	12.10.2009

## **1. Introdução**

### **1.1. Âmbito**

O presente documento representa todas as indicações (de detalhe) aplicáveis ao sistema de sinalização SSI e estratifica o âmbito de aplicação de cada uma como forma de representação, nos sinópticos de sinalização, de todos os elementos físicos das instalações.

Este documento define / ilustra o grau de uniformização projectado para a representação das indicações.

É igualmente do âmbito deste documento a representação das indicações de visão geral (painel panorâmico do CTC / CCO) que resultam da simplificação indicações de detalhe.

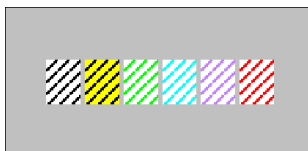
### **1.2. Descrição**

A representação das indicações no presente documento está organizada em quatro colunas, correspondendo cada uma destas aos diversos tipos de norma gráfica dos sinópticos de sinalização:

- VME;
- HIC&CC;
- SCC e CTC / CCO (norma gráfica comum);
- Painel Panorâmico.

As cores apresentadas neste catálogo correspondem às mostradas nos sinópticos de sinalização das Mesas de Comando (Local e CTC / CCO):

- As cores representadas a cheio correspondem a indicações fixas nos monitores;
- As cores representadas a tracejado correspondem a indicações intermitentes nos monitores, como se exemplifica de seguida.



Adicionalmente às indicações mostradas neste catálogo, existem outras resultantes de agregações e combinações das ilustradas.

### 1.3. Referências

REFER – Catálogo de Indicações (Edição 011, de Julho de 2006).

### 1.4. Abreviaturas

CTC – Comando de Tráfego Centralizado.

CCO – Centro de Comando Operacional.

SSI – Tipo de Encravamento Electrónico.

VME – Visual Mode Enhanced (Mesa de Comando SSI de 1ª geração).

HIC&CC – High Integrity Control and Command Center (Mesa de comando SSI de 2ª geração).

SCC – Small Control Center (Mesa de comando SSI de 3ª geração).

PN – Passagem de Nível.

ZAn – Zona de Anúncio.

ZAp – Zona de Aproximação.

AEI – Anulação de Emergência de Itinerário.

PIT – Pedido de Itinerário.

AIT – Autorização de Itinerário.

FRS – Fecho de Recurso de Sinal.

FSB – Fecho de Sinal de Bloco.

FST – Fecho de Sinal Totalizador.

TEL – Telefone.

CBT – Comando de Bloco Telefónico.

ABT – Autorização de Bloco Telefónico.

NCE – Normalização de Contador de Eixos.

CNCE – Confirmação da Normalização de Contador de Eixos.

CAP – Comando de Acesso ao Parque.

ACAP – Anulação da Autorização de Comando de Acesso ao Parque.

CL – Comando Local.

CC – Comando Central.

PII – Programação Informática de Itinerários.



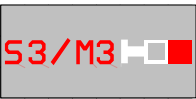



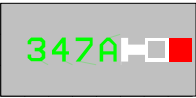
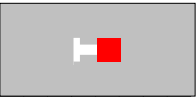




### 1.4. Documentos normativos revogados

O presente não revoga qualquer documento normativo.



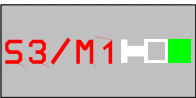
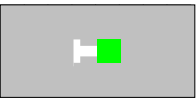




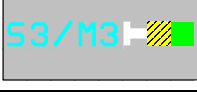
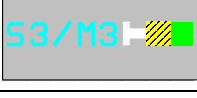
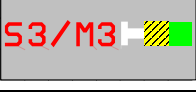



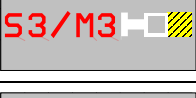
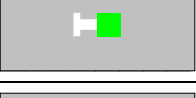






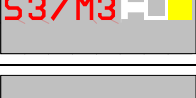
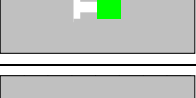




## 2. Indicações

### 2.1. Sinais



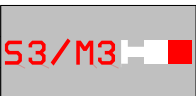




























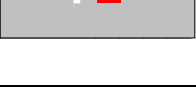

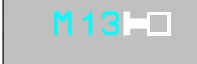

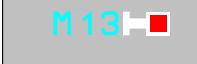




#### 2.1.1. Tipos de sinais

<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.1.1.1.</b> Sinal de circulação ou sinal combinado de circulação e manobras				
<b>2.1.1.2.</b> Sinal de plena via				
<b>2.1.1.3.</b> Sinal de manobras				

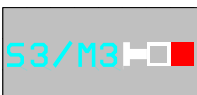


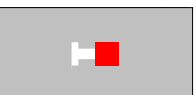
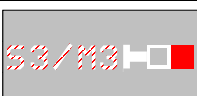



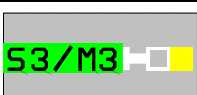
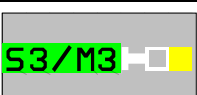
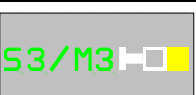

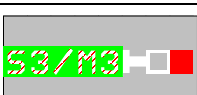
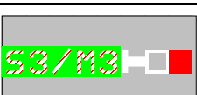


#### 2.1.2. Códigos fundamentais dos sinais

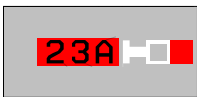
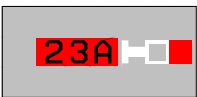
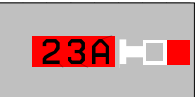

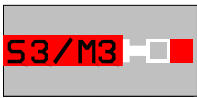
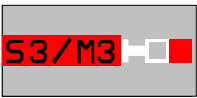
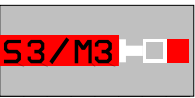

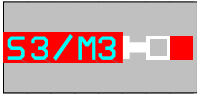
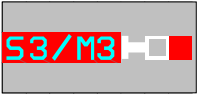

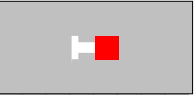
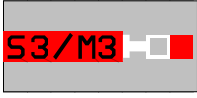
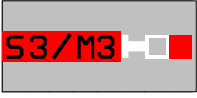
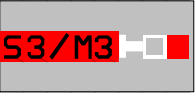





<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.1.2.1.</b> Verde				
<b>2.1.2.2.</b> Verde intermitente				
<b>2.1.2.3.</b> Verde e amarelo intermitente				
<b>2.1.2.4.</b> Amarelo intermitente				
<b>2.1.2.5.</b> Duplo amarelo				
<b>2.1.2.6.</b> Amarelo				
<b>2.1.2.7.</b> Vermelho				



<b>2.1.2.8.</b> Vermelho e branco				
<b>2.1.2.9.</b> Vermelho intermitente				
<b>2.1.2.10.</b> Branco lunar	 	 	 	 
<b>2.1.2.11.</b> Violeta				
<b>2.1.2.12.</b> Vermelho (proibição de manobras)				
<b>2.1.2.13.</b> Aspecto Apagado	 	 	 	 
<b>2.1.2.14.</b> Sem Informação de Estado	 	 	 	 

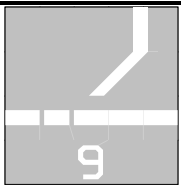
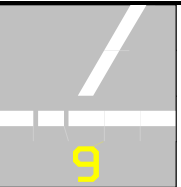
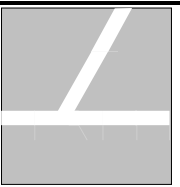
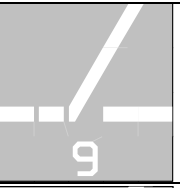
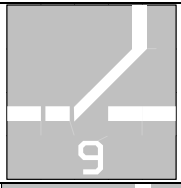
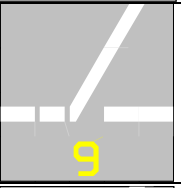
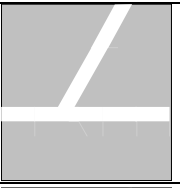
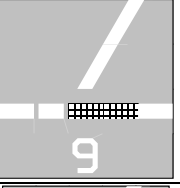
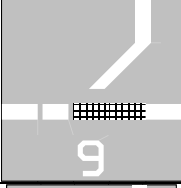
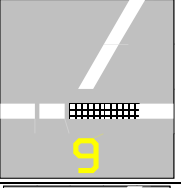
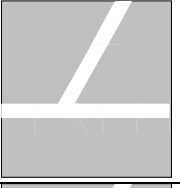
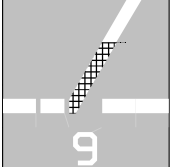
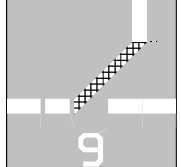
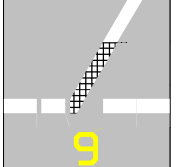

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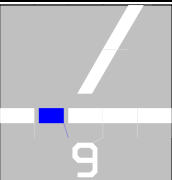
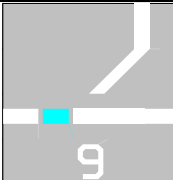
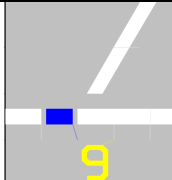

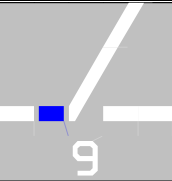
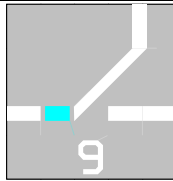
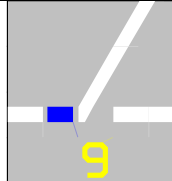

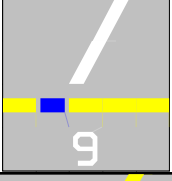
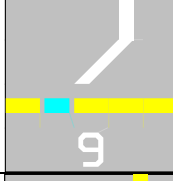
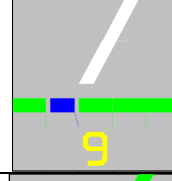
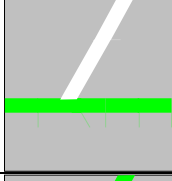
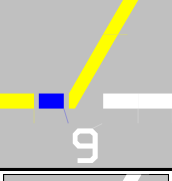
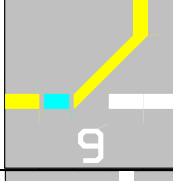
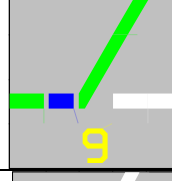
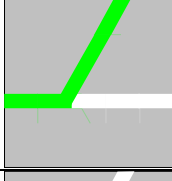
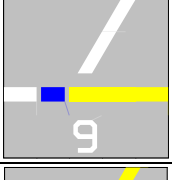
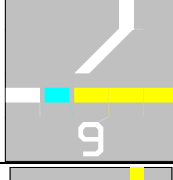
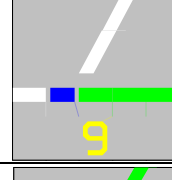
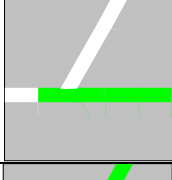
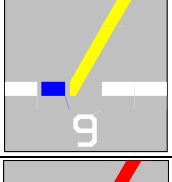
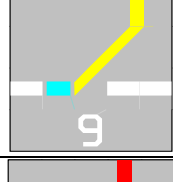
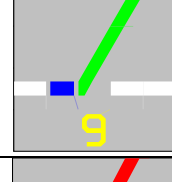
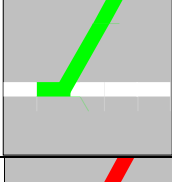
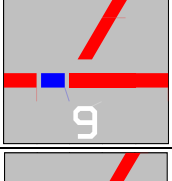
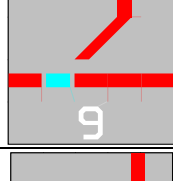
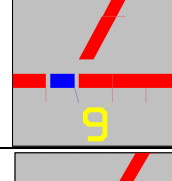
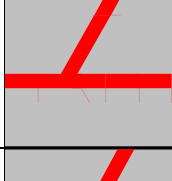
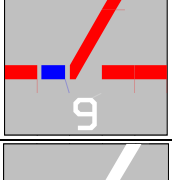
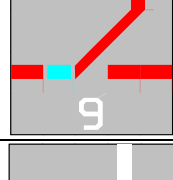
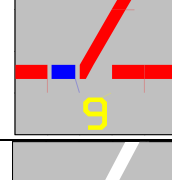
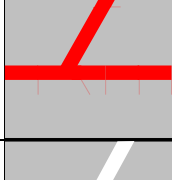
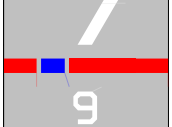


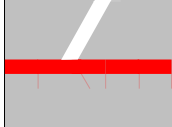
Descrição de Estado	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.1.3.1.</b> Aspecto de sinal sem comando especial activo				
<b>2.1.3.2.</b> Indicação de ZAn				
<b>2.1.3.3.</b> Modo automático activo				
<b>2.1.3.4.</b> Modo automático activo e indicação de ZAn				

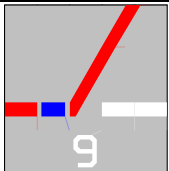
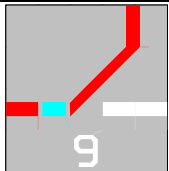
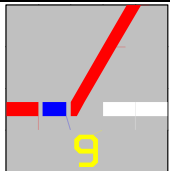
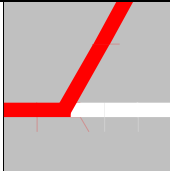
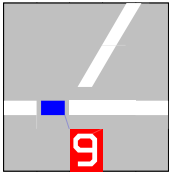
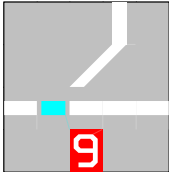
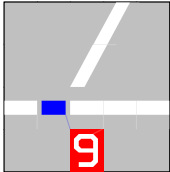

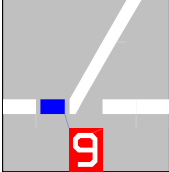
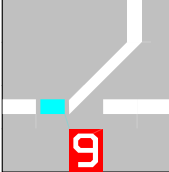
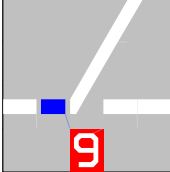

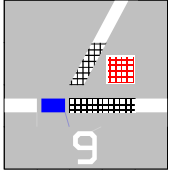
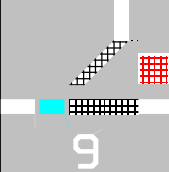
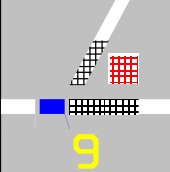
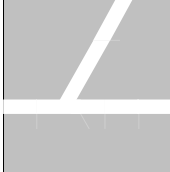
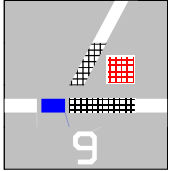
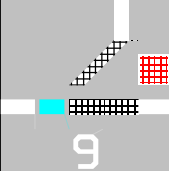
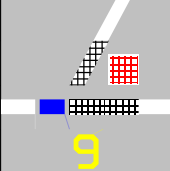

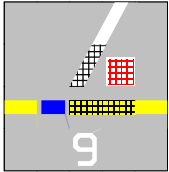
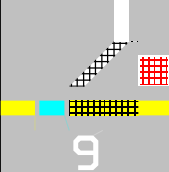
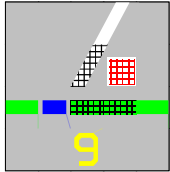
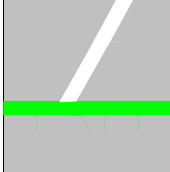
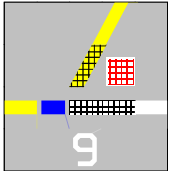
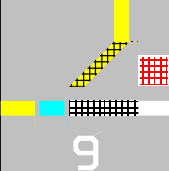
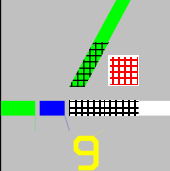
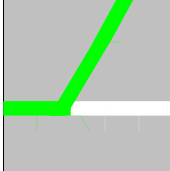
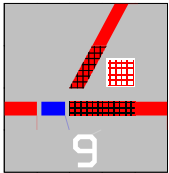
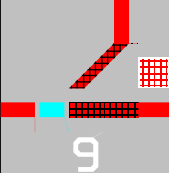
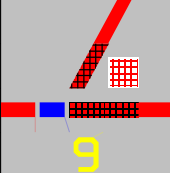
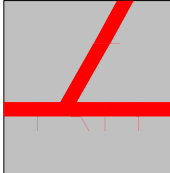
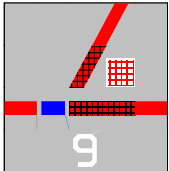
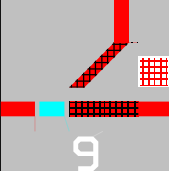
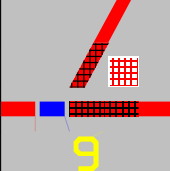
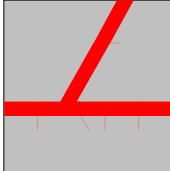
<b>2.1.3.5.</b> Comando FSB				
<b>2.1.3.6.</b> Comando FST				
<b>2.1.3.7.</b> Comando FRS				
<b>2.1.3.8.</b> Comando FRS e FSB / FST				
<b>2.1.3.9.</b> Comando TEL				

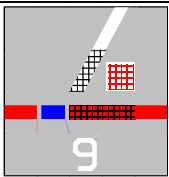
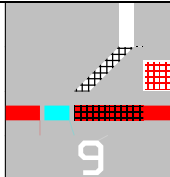
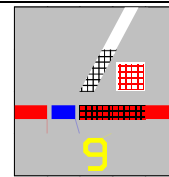
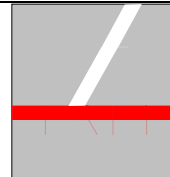
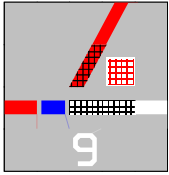
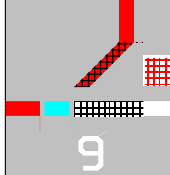
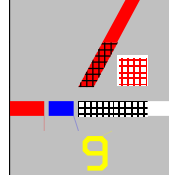
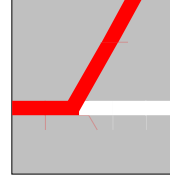
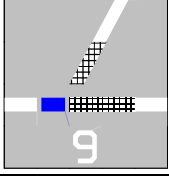
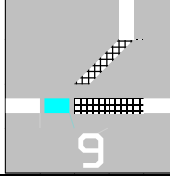
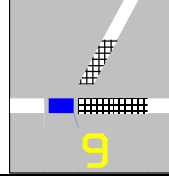

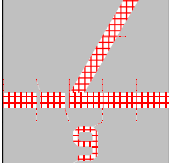
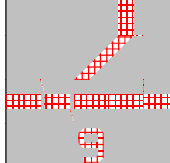
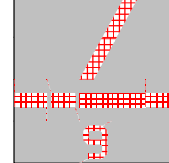
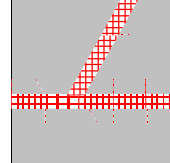
## 2.2. Agulhas motorizadas

### 2.2.1. Agulhas motorizadas simples

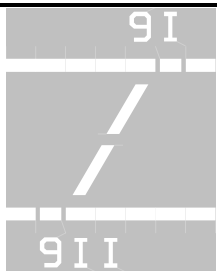
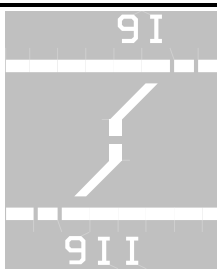
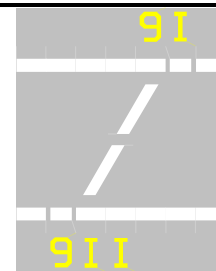
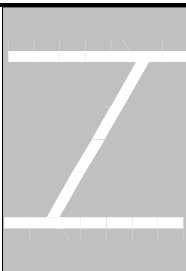
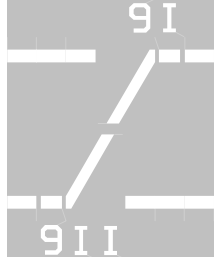
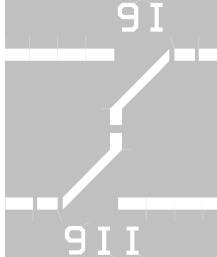
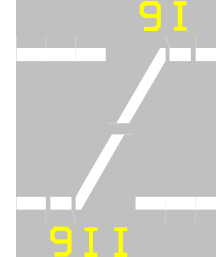
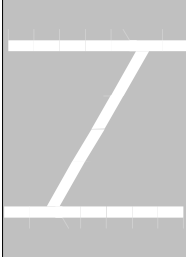
<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.2.1.1.</b> Agulha à direita	<b>Erro! Ligação inválida.</b>			
<b>2.2.1.2.</b> Agulha à esquerda				
<b>2.2.1.3.</b> Agulha em movimento para a direita, ou agulha à direita com falta de comprovação				
<b>2.2.1.4.</b> Agulha em movimento para a esquerda, ou agulha à esquerda com falta de comprovação				

<b>2.2.1.5.</b> Agulha à direita, encravada				
<b>2.2.1.6.</b> Agulha à esquerda, encravada				
<b>2.2.1.7.</b> Agulha à direita, itinerário estabelecido				
<b>2.2.1.8.</b> Agulha à esquerda, itinerário estabelecido				
<b>2.2.1.9.</b> Agulha à direita, encravada por escorregamento				
<b>2.2.1.10.</b> Agulha à esquerda, encravada por escorregamento				
<b>2.2.1.11.</b> Agulha à direita, ocupada, sem itinerário estabelecido				
<b>2.2.1.12.</b> Agulha à esquerda, ocupada, sem itinerário estabelecido				
<b>2.2.1.13.</b> Agulha à direita, ocupada, com itinerário estabelecido				

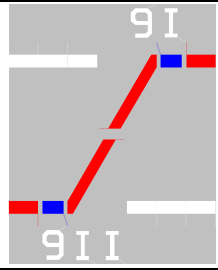
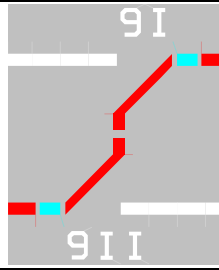
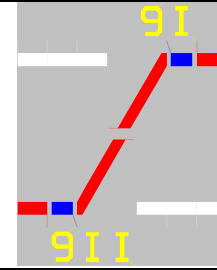
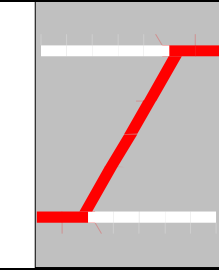
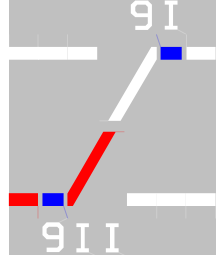
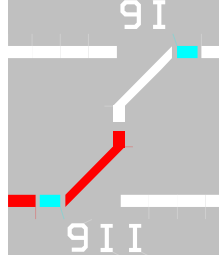
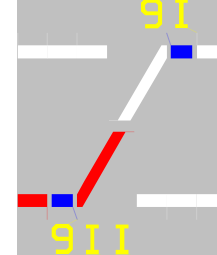
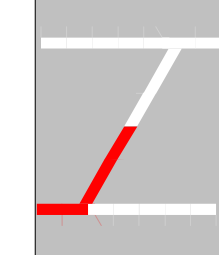
<b>2.2.1.14.</b> Agulha à esquerda, ocupada, com itinerário estabelecido				
<b>2.2.1.15.</b> Agulha à direita, comando do motor bloqueado				
<b>2.2.1.16.</b> Agulha à esquerda, comando do motor bloqueado				
<b>2.2.1.17.</b> Agulha à direita, talonada				
<b>2.2.1.18.</b> Agulha à esquerda, talonada				
<b>2.2.1.19.</b> Agulha à Direita, Itinerário de Circulação estabelecido, Talonada				
<b>2.2.1.20.</b> Agulha à esquerda, itinerário de circulação estabelecido, talonada				
<b>2.2.1.21.</b> Agulha à direita, ocupada, sem itinerário estabelecido, talonada				
<b>2.2.1.22.</b> Agulha à esquerda, ocupada, sem itinerário estabelecido, talonada				

<b>2.2.1.23.</b> Agulha à direita, ocupada, com itinerário estabelecido, talonada				
<b>2.2.1.24.</b> Agulha à esquerda, ocupada, com itinerário estabelecido, talonada				
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<b>2.2.1.26.</b> Sem informação de estado				

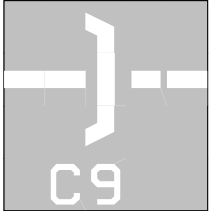
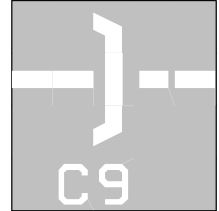
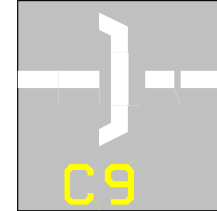
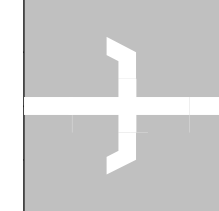
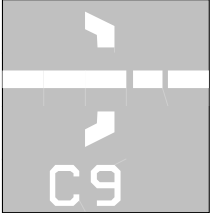
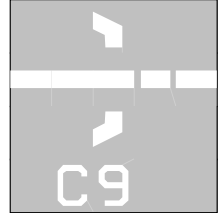
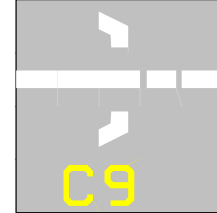
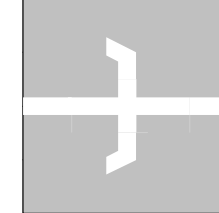
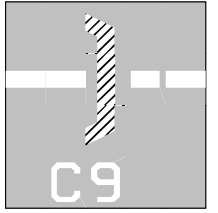
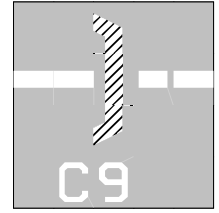
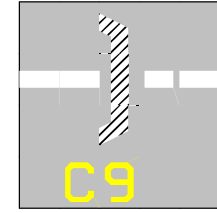
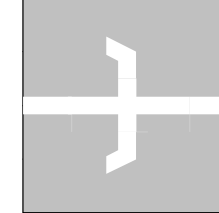
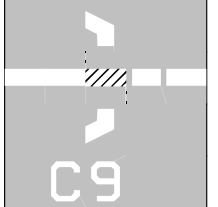
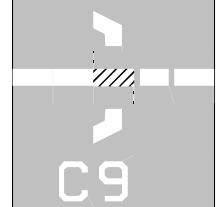
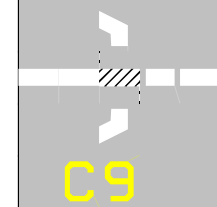
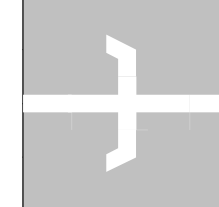
## 2.2.2. Agulhas motorizadas conjugadas

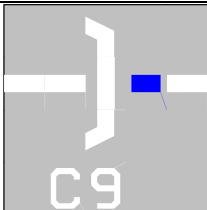
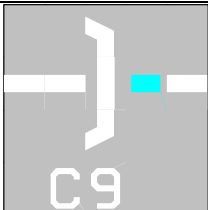
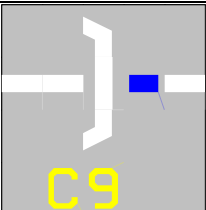
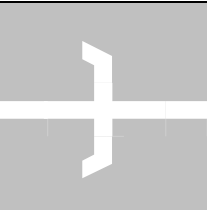
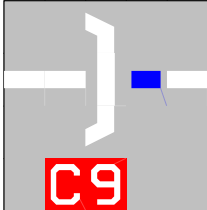
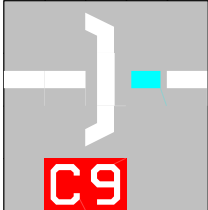
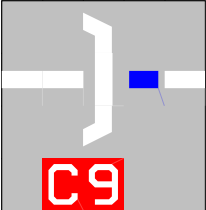
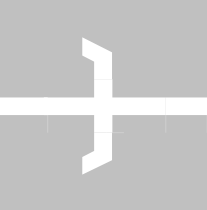
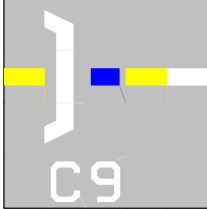
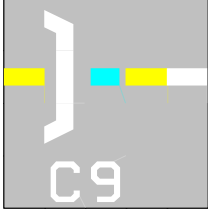
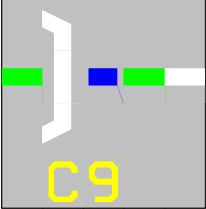
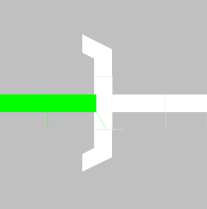
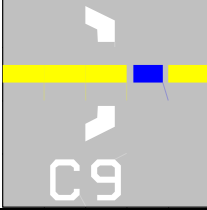
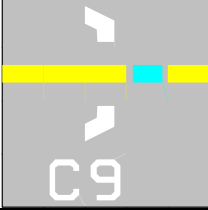
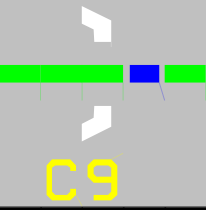
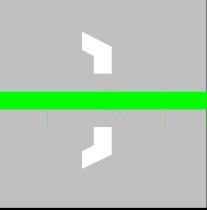
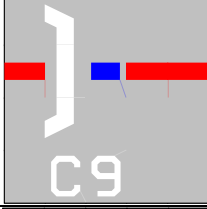
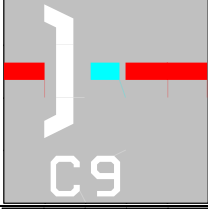
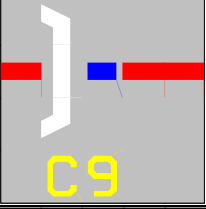
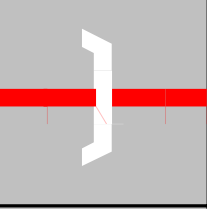
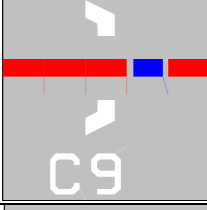
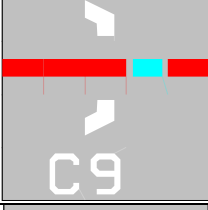
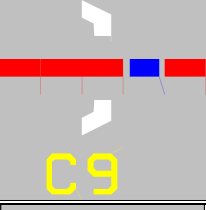
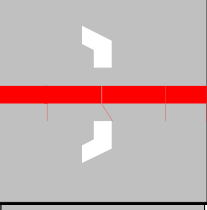
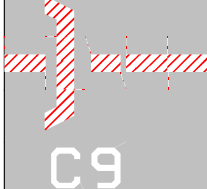
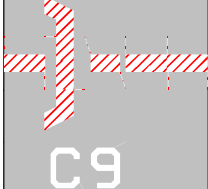
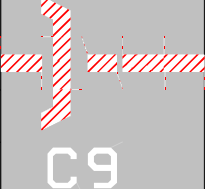
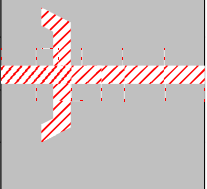
<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.2.2.1.</b> Agulhas à direita				
<b>2.2.2.2.</b> Agulhas à esquerda				

<b>2.2.2.3.</b> Agulhas à direita com itinerário na via de cima				
<b>2.2.2.4.</b> Agulhas à direita com itinerário em ambas as vias				
<b>2.2.2.5.</b> Agulhas à esquerda com itinerário				
<b>2.2.2.6.</b> Agulhas à direita, ambas as vias ocupadas				
<b>2.2.2.7.</b> Agulhas à direita, ambas as vias ocupadas, itinerário na via de cima				
<b>2.2.2.8.</b> Agulhas à esquerda, itinerário estabelecido, parcialmente percorrido				

<b>2.2.2.9.</b> Agulhas à esquerda, ambas as vias ocupadas, itinerário estabelecido				
<b>2.2.2.10.</b> Agulhas à esquerda, itinerário estabelecido, parcialmente percorrido, destruição				

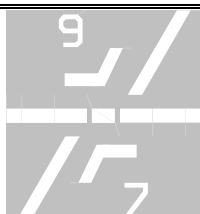
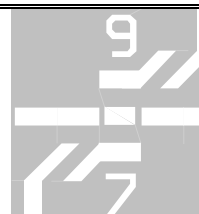
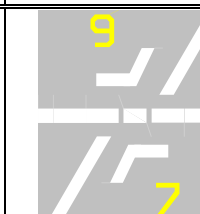
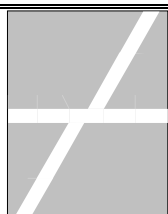
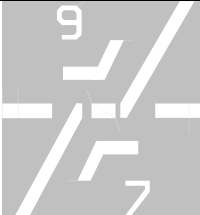
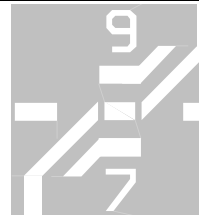
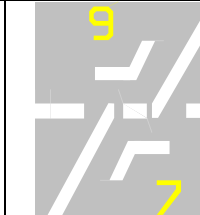
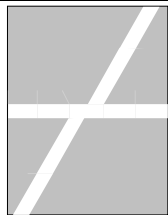
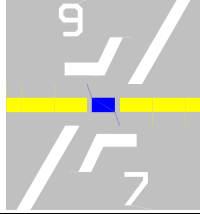
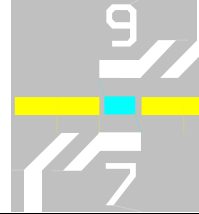
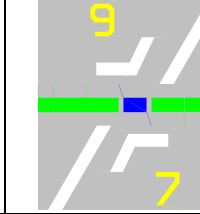
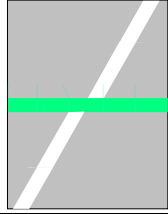
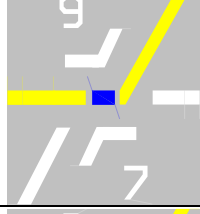
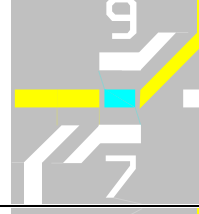
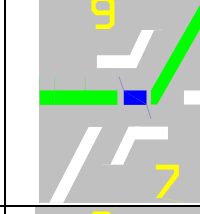
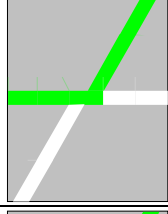
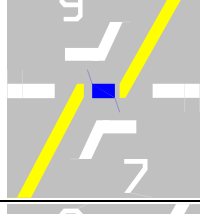
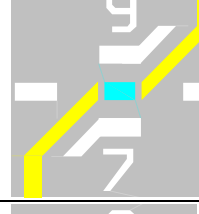
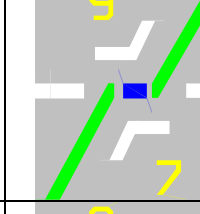
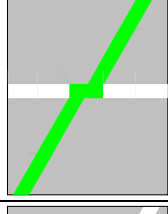
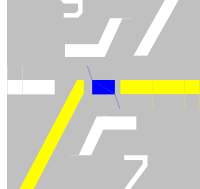
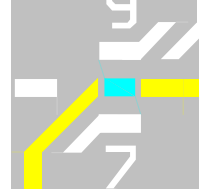
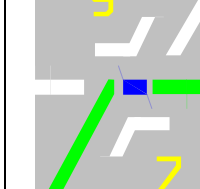
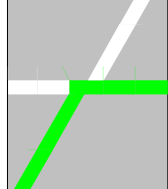
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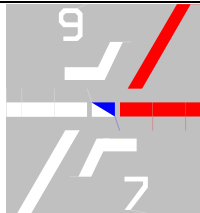
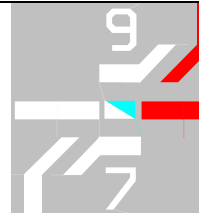
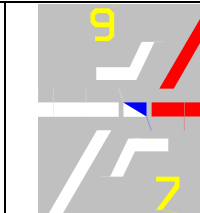
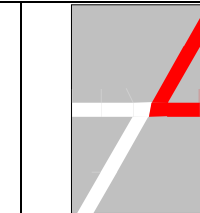
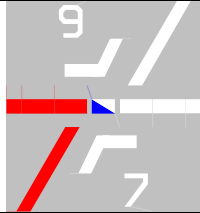
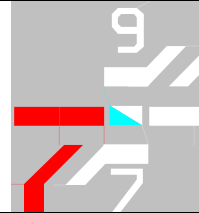
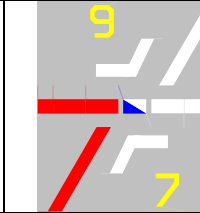
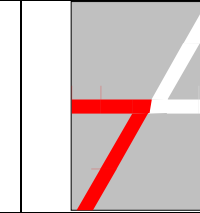
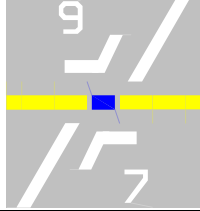
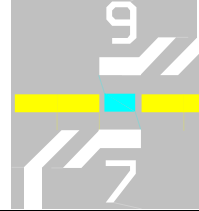
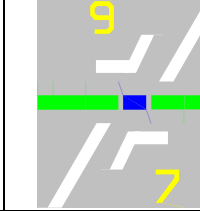
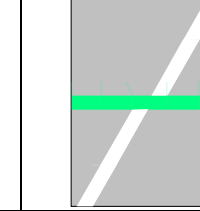
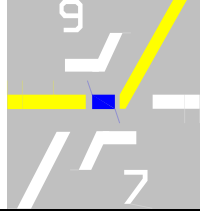
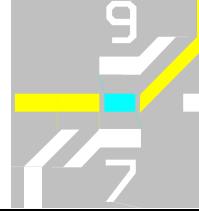
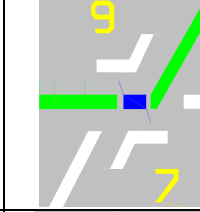
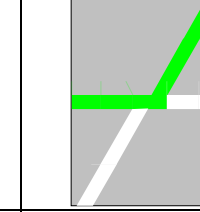
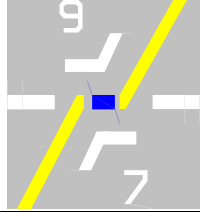
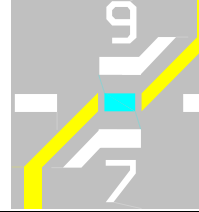
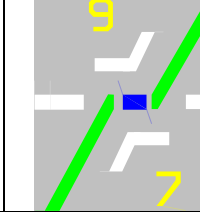
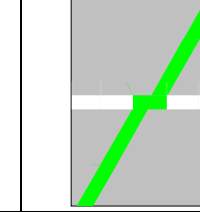
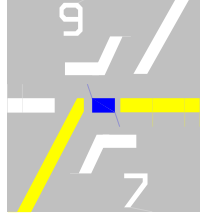
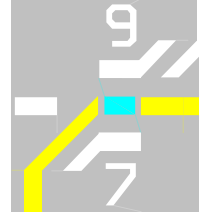
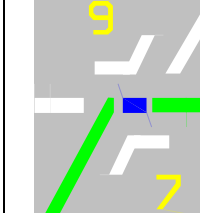
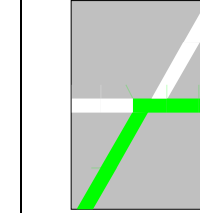
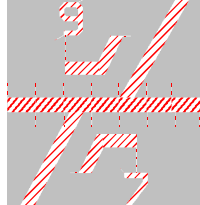
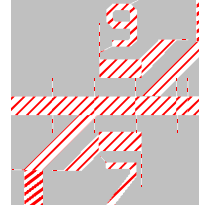
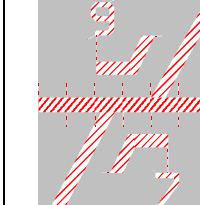
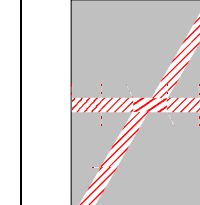
<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.2.3.1.</b> Calço em cima ou levantado				
<b>2.2.3.2.</b> Calço em baixo				
<b>2.2.3.3.</b> Calço em cima ou levantado, não comprovado				
<b>2.2.3.4.</b> Calço em baixo, não comprovado				

<b>2.2.3.5.</b> Calço em cima encravado				
<b>2.2.3.6.</b> Calço em cima e bloqueado				
<b>2.2.3.7.</b> Calço em cima encravado por escorregamento				
<b>2.2.3.8.</b> Calço em baixo, itinerário estabelecido				
<b>2.2.3.9.</b> Calço em cima, ocupado				
<b>2.2.3.10.</b> Calço em baixo, ocupado				
<b>2.2.3.11.</b> Calço sem informação de estado				



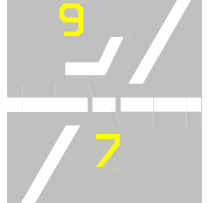
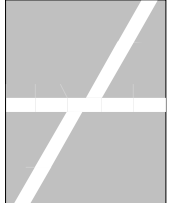

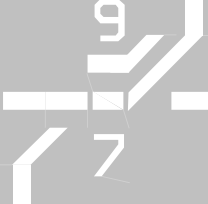
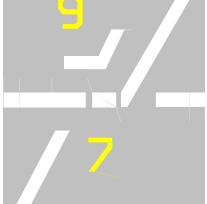
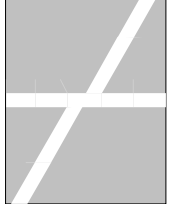
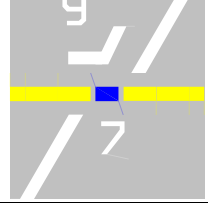
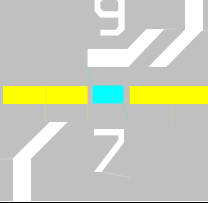
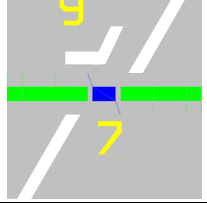
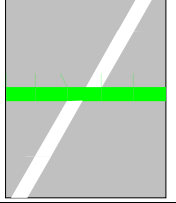
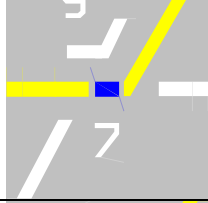
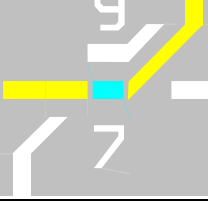
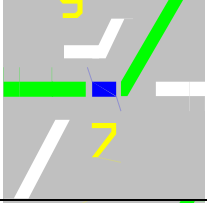
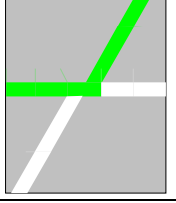
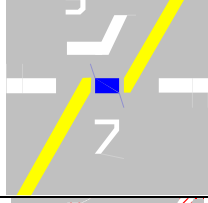

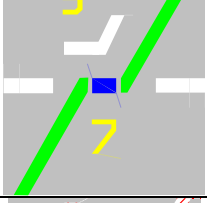
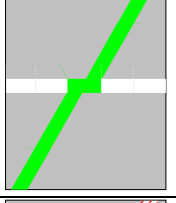

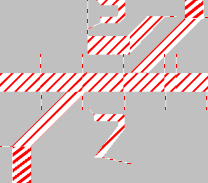
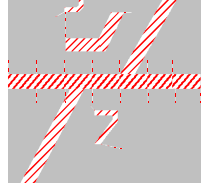
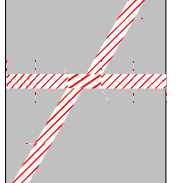


#### 2.2.4. Transversais de junção dupla (TJD)

<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.2.4.1.</b> Agulhas à direita				
<b>2.2.4.2.</b> Agulhas à esquerda				
<b>2.2.4.3.</b> Agulhas à direita, itinerário estabelecido				
<b>2.2.4.4.</b> Agulha 7 à direita e 9 à esquerda, itinerário estabelecido				
<b>2.2.4.5.</b> Agulhas à esquerda, itinerário estabelecido				
<b>2.2.4.6.</b> Agulha 7 à esquerda e 9 à direita, itinerário estabelecido				

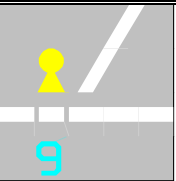
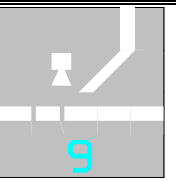
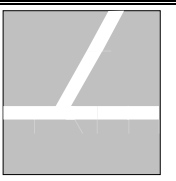
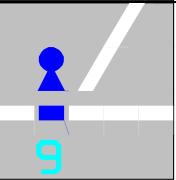
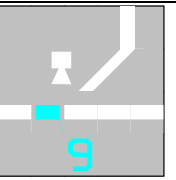
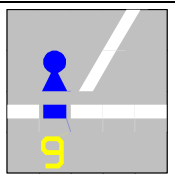
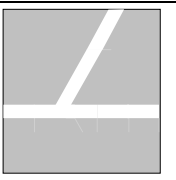
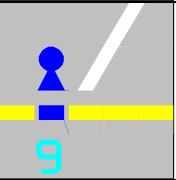
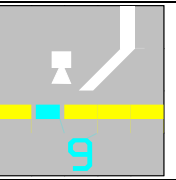
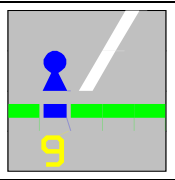
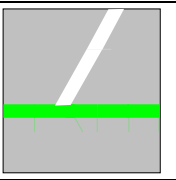
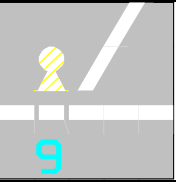


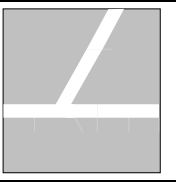
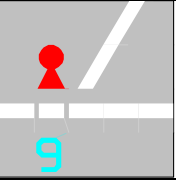
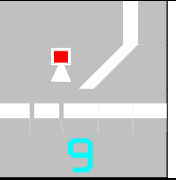

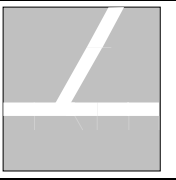
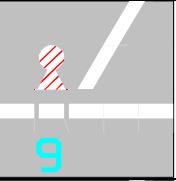
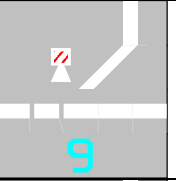
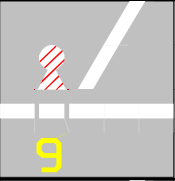
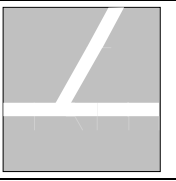
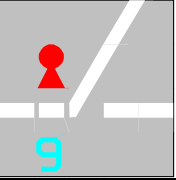

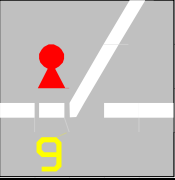
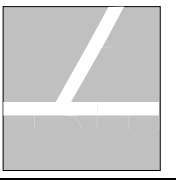
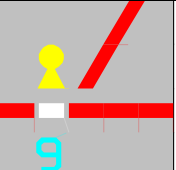
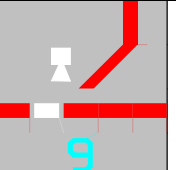
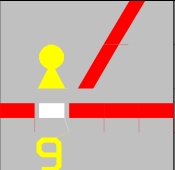
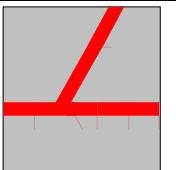
<b>2.2.4.7.</b> Agulhas à direita, agulha 9 ocupada				
<b>2.2.4.8.</b> Agulhas à direita, agulha 7 ocupada				
<b>2.2.4.9.</b> Agulhas à direita, itinerário estabelecido				
<b>2.2.4.10.</b> Agulhas à 7 direita, agulha 9 à esquerda itinerário estabelecido				
<b>2.2.4.11.</b> Agulhas à esquerda itinerário estabelecido				
<b>2.2.4.12.</b> Agulhas 7 à esquerda e agulha 9 à direita itinerário estabelecido				
<b>2.2.4.13.</b> Agulhas sem informação de estado				

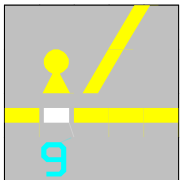
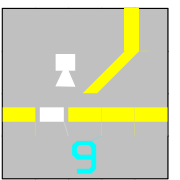
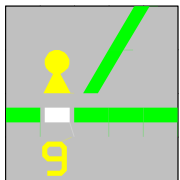
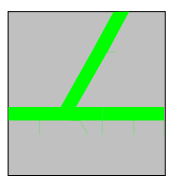
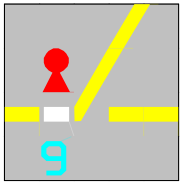
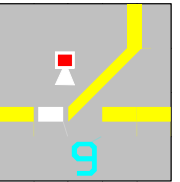
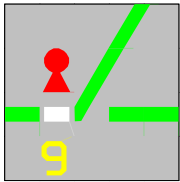
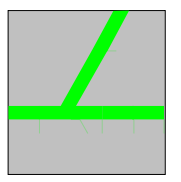
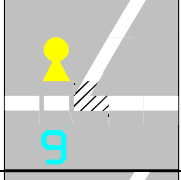
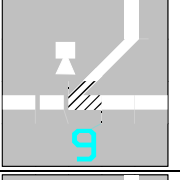
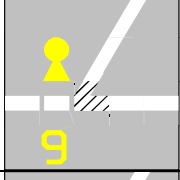
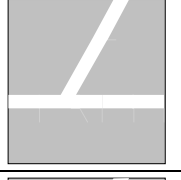
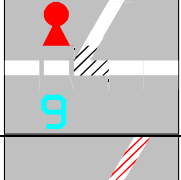
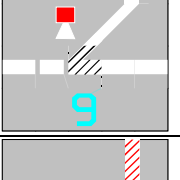
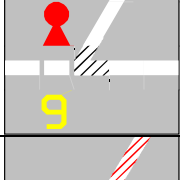
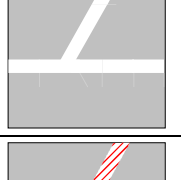




### 2.2.5. Transversais de junção simples (TJS)

<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.2.5.1.</b> Agulhas à direita				
<b>2.2.5.2.</b> Agulhas à esquerda				
<b>2.2.5.3.</b> Agulhas à direita, itinerário estabelecido				
<b>2.2.5.4.</b> Agulha 9 à direita e 7 à esquerda, itinerário estabelecido				
<b>2.2.5.5.</b> Agulha 9 à esquerda e 7 à esquerda, itinerário estabelecido				
<b>2.2.5.6.</b> Agulhas sem informação de estado				

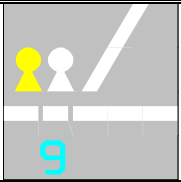
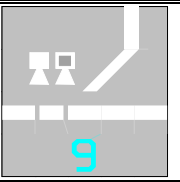
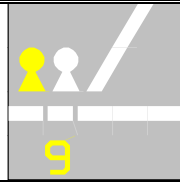
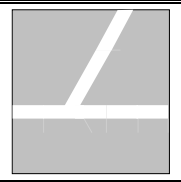
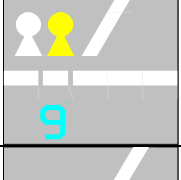
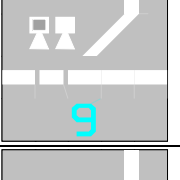
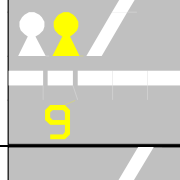
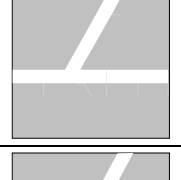




## 2.3. Agulhas com transportadores de chaves

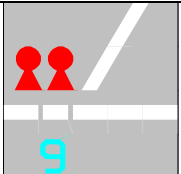
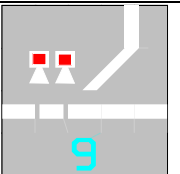
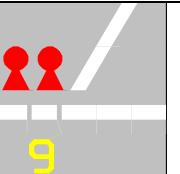
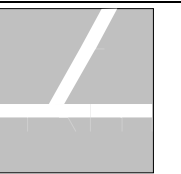
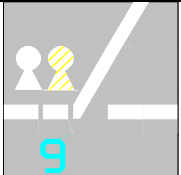
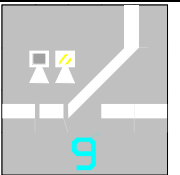
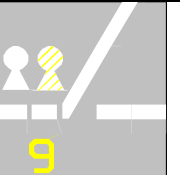
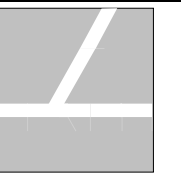
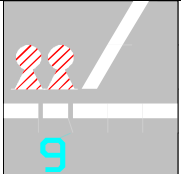
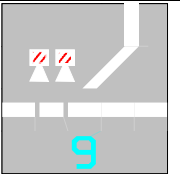
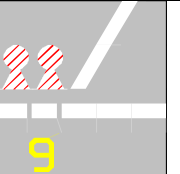
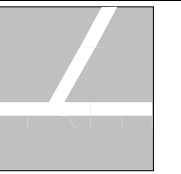
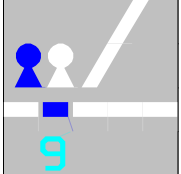
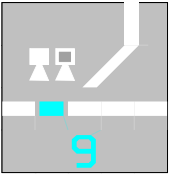
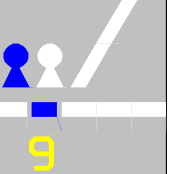
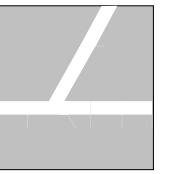
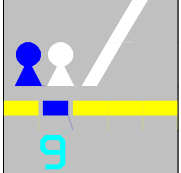
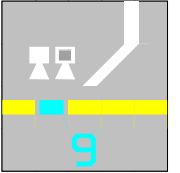
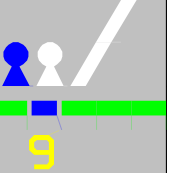
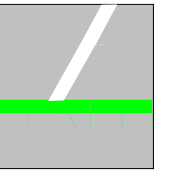
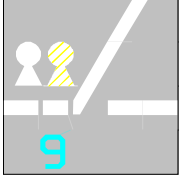
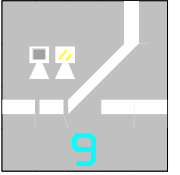
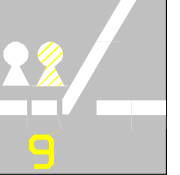
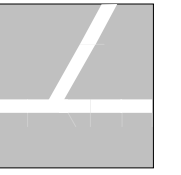
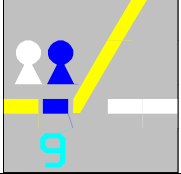
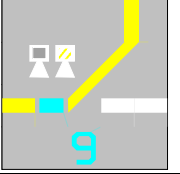
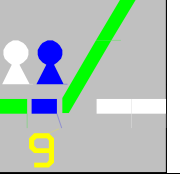
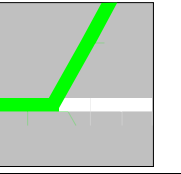
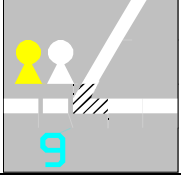
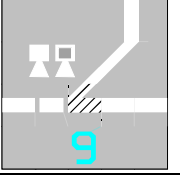
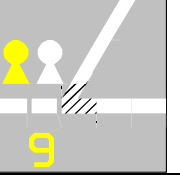
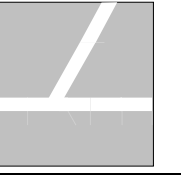
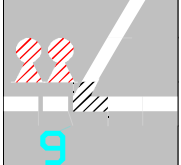
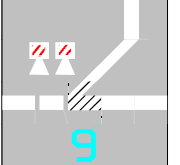
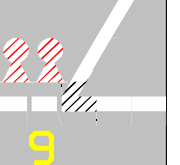
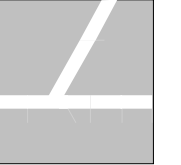
### 2.3.1. Transportadores simples

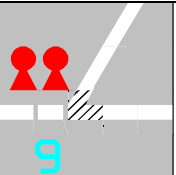
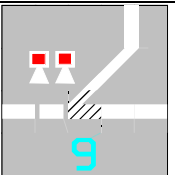
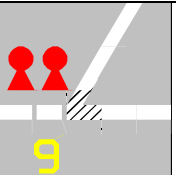
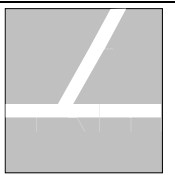
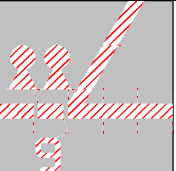
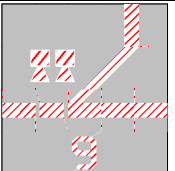
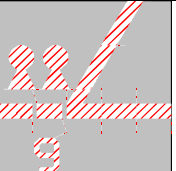
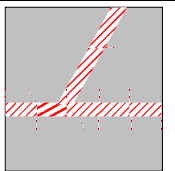
<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.3.1.1.</b> Agulha à direita chave inserida			<b>Erro! Ligação inválida.</b>	
<b>2.3.1.2.</b> Agulha à direita chave inserida e encravada				
<b>2.3.1.3.</b> Agulha à direita chave inserida e encravada, itinerário estabelecido				
<b>2.3.1.4.</b> Agulha à direita chave inserida e autorizado (Indicação de chave em Amarelo Intermitente)				
<b>2.3.1.5.</b> Agulha à direita autorizado e chave retirada				
<b>2.3.1.6.</b> Agulha à direita não autorizado e chave retirada				
<b>2.3.1.7.</b> Agulha à esquerda autorizado e chave retirada				
<b>2.3.1.8.</b> Agulha à direita não autorizado chave inserida e secção de via ocupada				

<b>2.3.1.9.</b> Agulha à direita chave inserida, itinerário estabelecido (caso particular de linhas de estacionamento)				
<b>2.3.1.10.</b> Agulha à esquerda chave inserida, itinerário estabelecido (caso particular de linhas de estacionamento)				
<b>2.3.1.11.</b> Agulha com falta de comprovação, chave dentro				
<b>2.3.1.12.</b> Agulha com falta de comprovação, chave fora autorizada				
<b>2.3.1.13.</b> Agulhas sem informação de estado				

### 2.3.2. Transportadores duplos

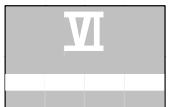
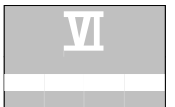
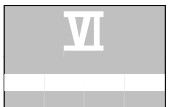

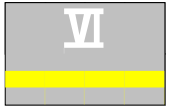
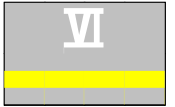
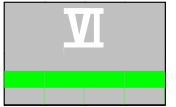

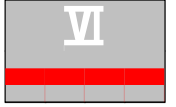
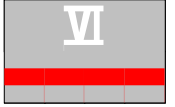
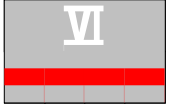
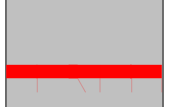
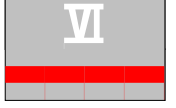
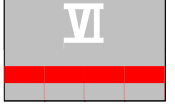
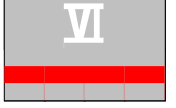
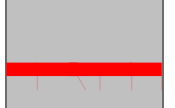






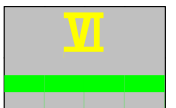
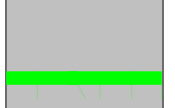
<b>Descrição de Estado</b>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.3.2.1.</b> Agulha à direita chave "A" inserida				
<b>2.3.2.2.</b> Agulha à direita chave "B" inserida não autorizada				
<b>2.3.2.3.</b> Agulha à direita chave "A" inserida autorizada (Indicação de chave em Amarelo Intermitente)				

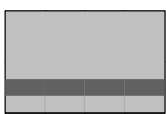

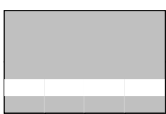
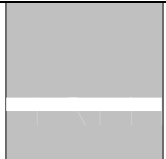
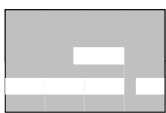
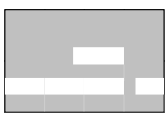
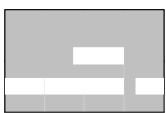
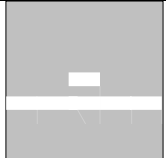
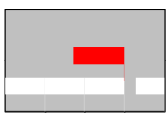
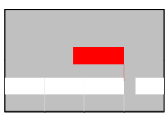
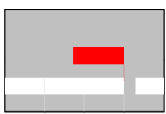
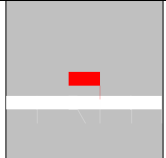



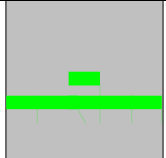



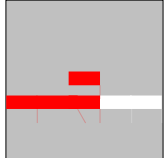



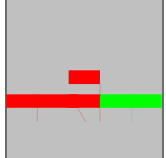
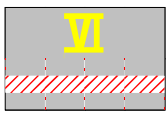
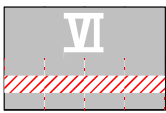
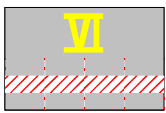
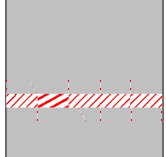
<b>2.3.2.4.</b> Agulha à direita chaves fora autorizadas				
<b>2.3.2.5.</b> Agulha à esquerda chave "B" dentro autorizada				
<b>2.3.2.6.</b> Agulha à direita chaves fora não autorizadas				
<b>2.3.2.7.</b> Agulha à direita chave "A" dentro encravado				
<b>2.3.2.8.</b> Agulha à direita chave "A" dentro encravado itinerário estabelecido				
<b>2.3.2.9.</b> Agulha à esquerda chave "B" dentro				
<b>2.3.2.10.</b> Agulha à esquerda chave "B" dentro encravado itinerário estabelecido				
<b>2.3.2.11.</b> Agulha não comprovada com chave "A" dentro				
<b>2.3.2.12.</b> Agulha não comprovada com chave fora não autorizada				

<b>2.3.2.13.</b> Agulha não comprovada com chave fora autorizada				
<b>2.3.2.14.</b> Agulhas sem informação de estado				

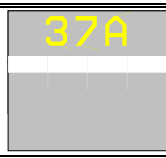
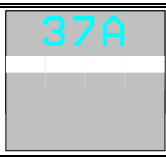
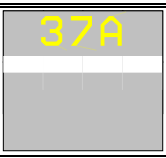
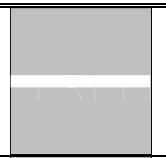

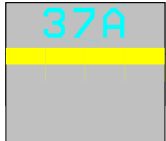
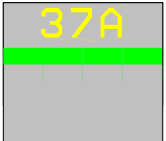
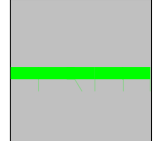
## 2.4. Secções de via

### 2.4.1. Circuitos de via


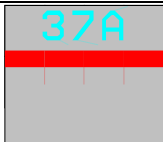

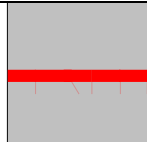
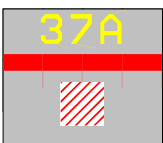
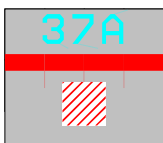

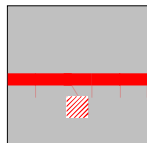
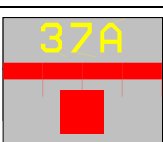
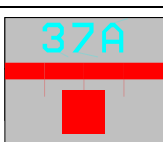
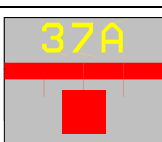
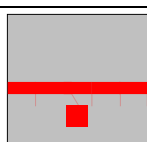
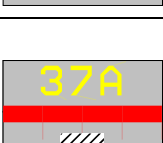
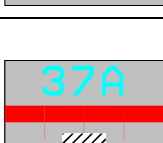
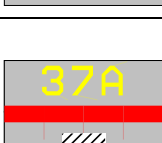
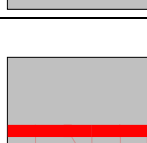
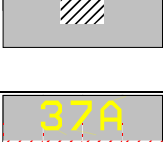



<b>Descrição de Estado</b>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.4.1.1.</b> Secção de via livre e sem itinerário				
<b>2.4.1.2.</b> Secção de via livre e com itinerário				
<b>2.4.1.3.</b> Secção de via ocupada com itinerário				
<b>2.4.1.4.</b> Secção de via ocupada sem itinerário				
<b>2.4.1.5.</b> Secção de via sem detecção de comboios				
<b>2.4.1.6.</b> Designação secção de via livre como destino de itinerário (designação cor amarela)				

<b>2.4.1.7.</b> Secção de via pertencente ao encravamento vizinho sem detecção				
<b>2.4.1.8.</b> Secção de via livre e sem itinerário (curto ou sobreposto)				
<b>2.4.1.9.</b> Secção de via ocupada (curto)				
<b>2.4.1.10.</b> Secção de via livre com itinerário (curto ou sobreposto)				
<b>2.4.1.11.</b> Secção de via ocupada (curto e sobreposto)				
<b>2.4.1.12.</b> Secção de via ocupada (curto e sobreposto), itinerário estabelecido				
<b>2.4.1.13.</b> Secção de via sem informação de estado				

## 2.4.2. Contadores de eixos



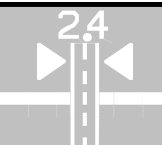
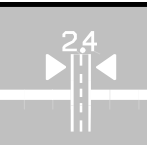
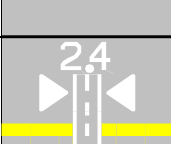

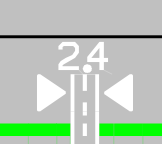
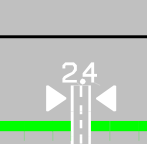

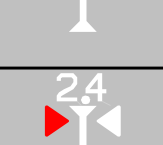
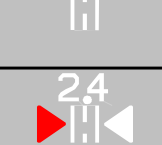

<b>Descrição de Estado</b>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.4.2.1.</b> Secção de via livre				
<b>2.4.2.2.</b> Secção de via livre itinerário estabelecido				



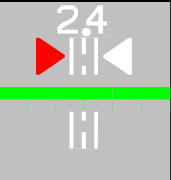
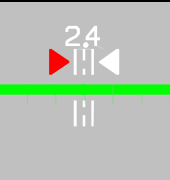



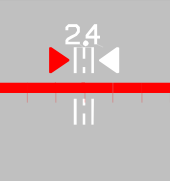



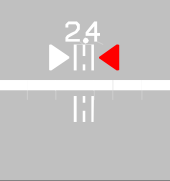
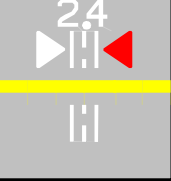

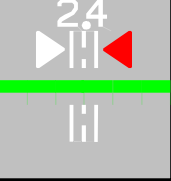
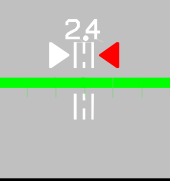
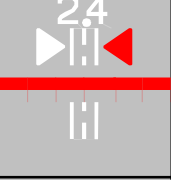
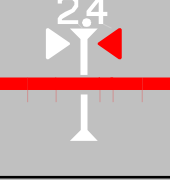
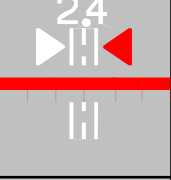

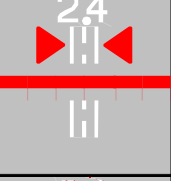
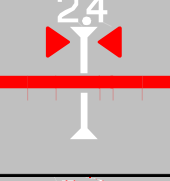
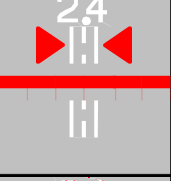
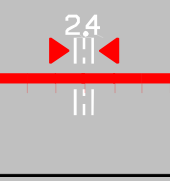



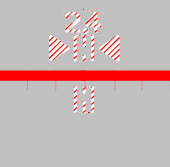


<b>2.4.2.3.</b> Secção de via ocupada				
<b>2.4.2.4.</b> Via ocupada em caso de normalização de contadores de eixos, comando NCE realizado				
<b>2.4.2.5.</b> Via ocupada por comboio piloto após execução do comando NCE				
<b>2.4.2.6.</b> Via livre, após ter sido percorrida correctamente pelo comboio piloto, antes da realização do comando CNCE				
<b>2.4.2.7.</b> Secção avariada				

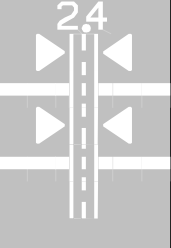
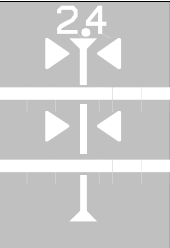
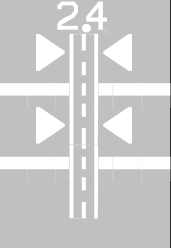
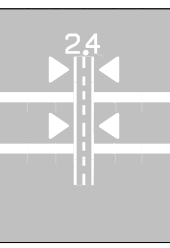
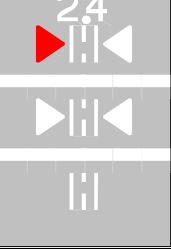
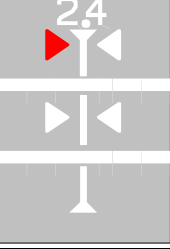
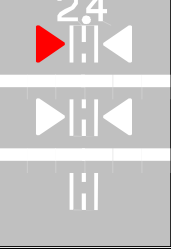
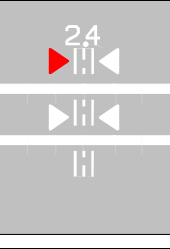
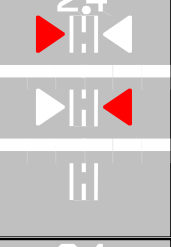
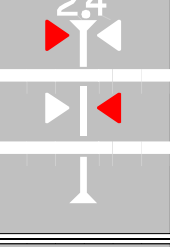
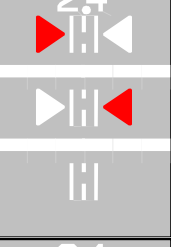
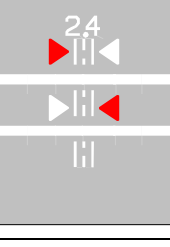
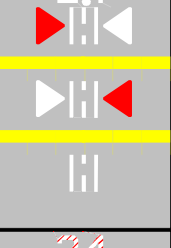
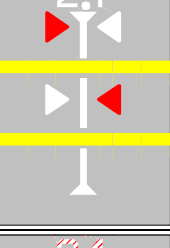
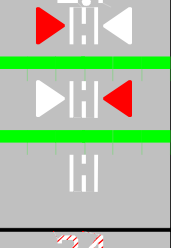
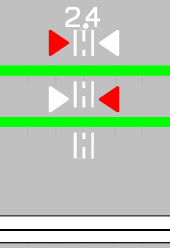
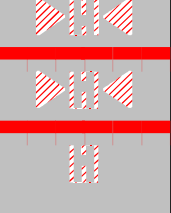
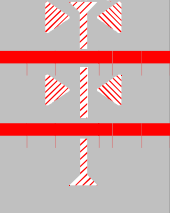
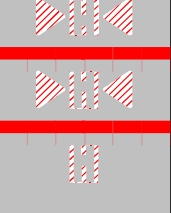
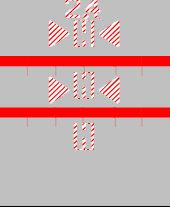
## 2.5. Passagens de nível

### 2.5.1. PN em via única





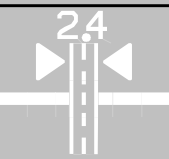
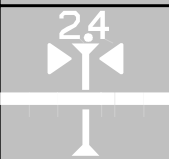
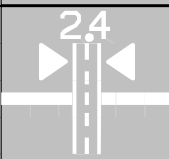
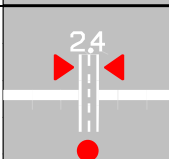
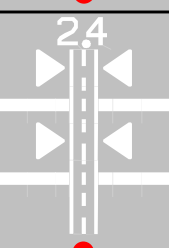
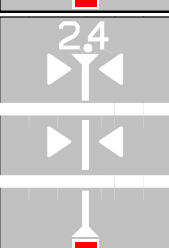
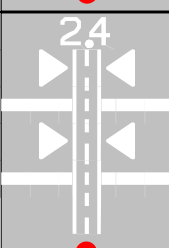
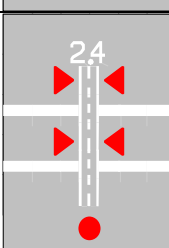
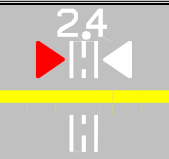
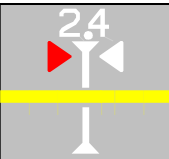
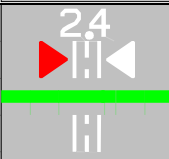
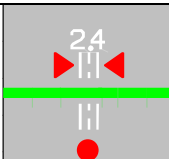

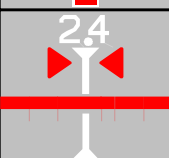


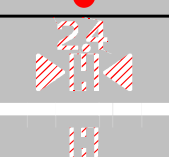
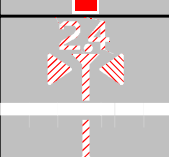
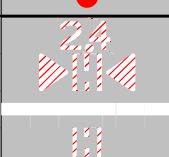

<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.5.1.1.</b> PN sem anúncio				
<b>2.5.1.2.</b> PN sem anúncio itinerário estabelecido				
<b>2.5.1.3.</b> PN com anúncio (esquerda)				

<b>2.5.1.4.</b> PN com anúncio (esquerda) itinerário estabelecido				
<b>2.5.1.5.</b> PN com anúncio (esquerda) itinerário estabelecido secção de via ocupada				
<b>2.5.1.6.</b> PN com anúncio (direita)				
<b>2.5.1.7.</b> PN com anúncio (direita) itinerário estabelecido				
<b>2.5.1.8.</b> PN com anúncio (direita) itinerário estabelecido secção de via ocupada				
<b>2.5.1.9.</b> PN com anúncio (ambos sentidos) itinerário não estabelecido secção de via ocupada				
<b>2.5.1.10.</b> PN sem informação de estado, via ocupada				

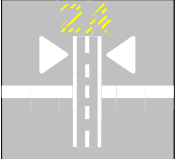
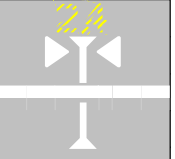
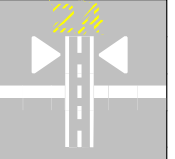
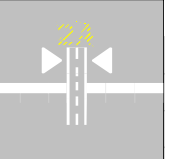
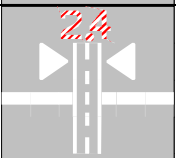
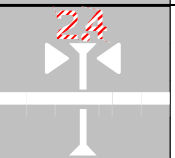
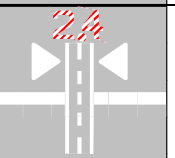
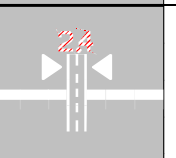
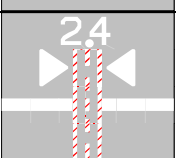

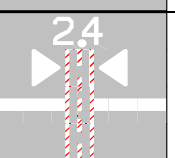
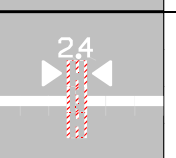


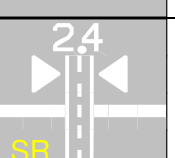
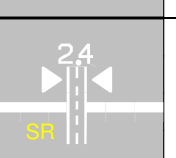

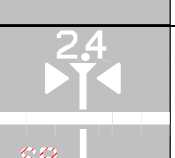
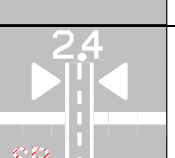
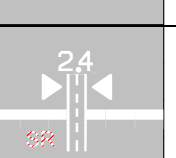
### 2.5.2. PN em via dupla

<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.5.2.1.</b> PN sem anúncio				
<b>2.5.2.2.</b> PN com anúncio (esquerda)				
<b>2.5.2.3.</b> PN com anúncio ambas as vias mostrando o respectivo sentido				
<b>2.5.2.4.</b> PN com anúncio ambas as vias mostrando o respectivo sentido itinerários estabelecidos				
<b>2.5.2.5.</b> PN sem informação de estado, via ocupada				

### 2.5.3. PN com influência de Estação




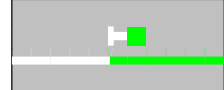



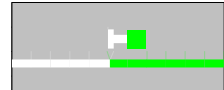




<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.5.3.1.</b> PN sem anúncio				
<b>2.5.3.2.</b> PN com anúncio manual				
<b>2.5.3.3.</b> PN com anúncio manual, via dupla				
<b>2.5.3.4.</b> PN com anúncio manual e anúncio esquerda, itinerário estabelecido				
<b>2.5.3.5.</b> PN com anúncio manual e anúncios à esquerda e direita, secção ocupada				
<b>2.5.3.6.</b> PN sem informação de estado, secção de via livre				




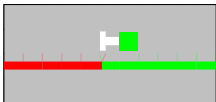



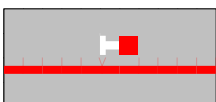
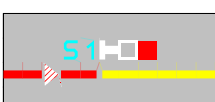

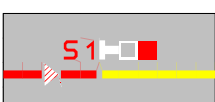
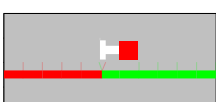




### 2.5.4. PN com indicação de anormalidades

<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.5.4.1.</b> PN com indicação de pequena anormalidade				
<b>2.5.4.2.</b> PN com indicação de grande anormalidade				
<b>2.5.4.3.</b> PN com indicação de falha no quadro de alimentação				
<b>2.5.4.4.</b> PN com indicação de falha não crítica no sistema Rodo Ferroviário				
<b>2.5.4.5.</b> PN com indicação de falha crítica no sistema Rodo Ferroviário				

## 2.6. Encravamento de Aproximação Zap


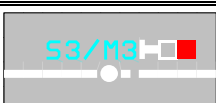
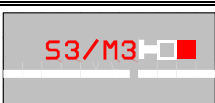



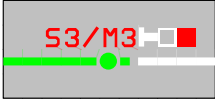
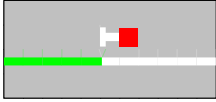


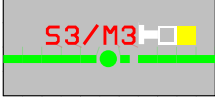
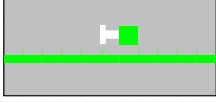






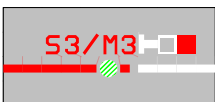
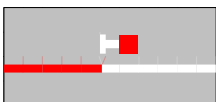
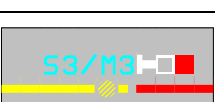

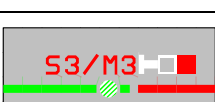
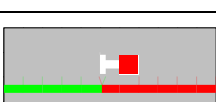
### 2.6.1. Geral




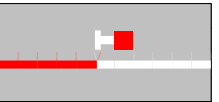
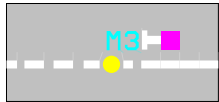
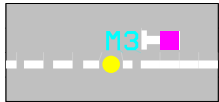
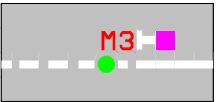
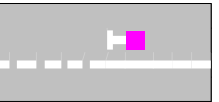
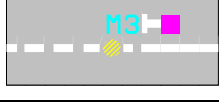
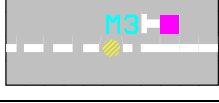
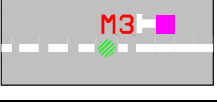
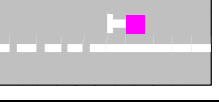

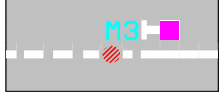
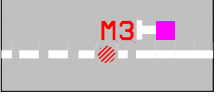
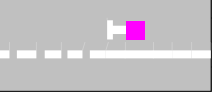
<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.6.1.1.</b> Zap livre				
<b>2.6.1.2.</b> Zap ocupada				
<b>2.6.1.3.</b> Zap ocupada, temporização em curso				

<b>2.6.1.4.</b> Zap ocupada, secção anterior ao sinal ocupada				
<b>2.6.1.5.</b> Zap ocupada, secção anterior e posterior ao sinal ocupadas				
<b>2.6.1.6.</b> Zap ocupada, temporização em curso, secção anterior ocupada				
<b>2.6.1.7.</b> Zap ocupada, temporização em curso, secção anterior e posterior ao sinal ocupadas				

## 2.7. Destino de itinerário

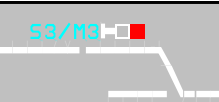
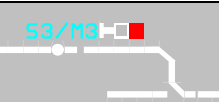
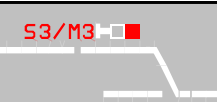
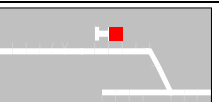
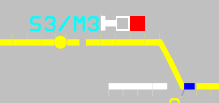
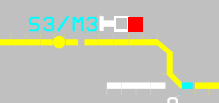
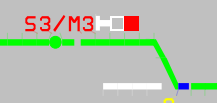
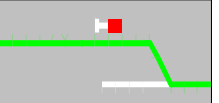
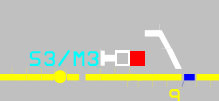
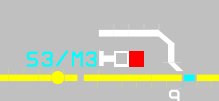
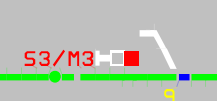
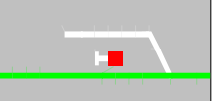
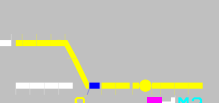

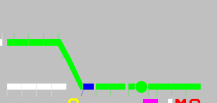
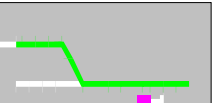




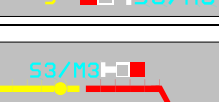

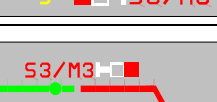
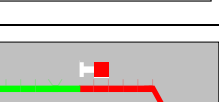
### 2.7.1. Geral

<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.7.1.1.</b> Itinerário não estabelecido				
<b>2.7.1.2.</b> Itinerário estabelecido com destino em S3/M3				
<b>2.7.1.3.</b> Itinerário estabelecido com destino em S3/M3 e origem no mesmo				
<b>2.7.1.4.</b> Itinerário estabelecido, secção ocupada				
<b>2.7.1.5.</b> Itinerário estabelecido, temporização de anulação de escorregamento				
<b>2.7.1.6.</b> Anulação de escorregamento em curso, via livre				

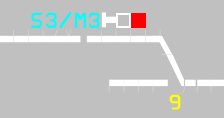
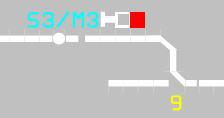
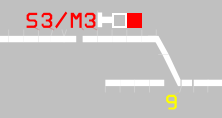
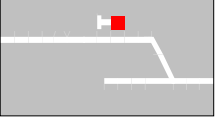
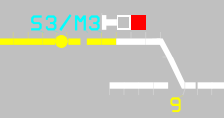
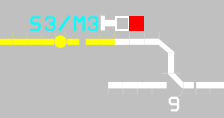
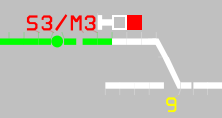
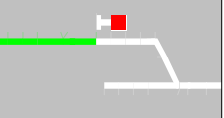
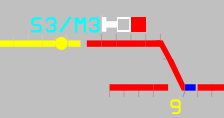
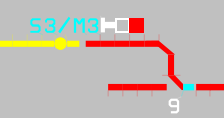
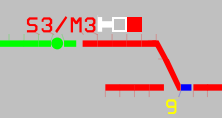
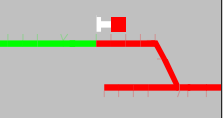
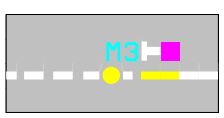
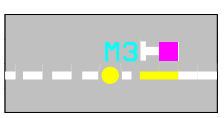
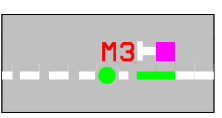
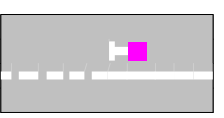



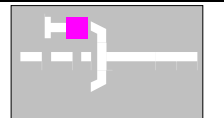
<b>2.7.1.7.</b> Itinerário estabelecido, temporização de anulação emergência (AEI)				
<b>2.7.1.8.</b> Itinerário sobre vias não controladas				
<b>2.7.1.9.</b> Itinerário sobre vias não controladas, temporização em curso				
<b>2.7.1.10.</b> Itinerário estabelecido sobre vias não controladas, AEI em curso				

## 2.8. Indicação de escorregamento

### 2.8.1. Escorregamento físico ou de afectação



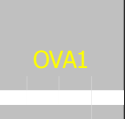







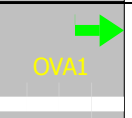
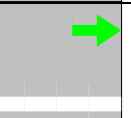
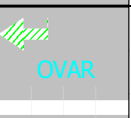

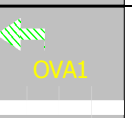
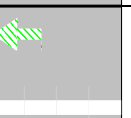
<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.8.1.1.</b> Itinerário não estabelecido				
<b>2.8.1.2.</b> Itinerário estabelecido, agulha encravada por escorregamento				
<b>2.8.1.3.</b> Itinerário estabelecido, agulha encravada por escorregamento				
<b>2.8.1.4.</b> Itinerário estabelecido, agulha (ponta) encravada por escorregamento				
<b>2.8.1.5.</b> Itinerário estabelecido, agulha não encravada, ramo comum no escorregamento				
<b>2.8.1.6.</b> Itinerário estabelecido, agulha encravada por escorregamento, ocupado				

## 2.8.2. Escorregamento lógico ou de incompatibilização


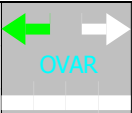
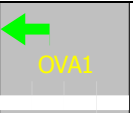
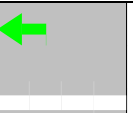
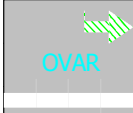


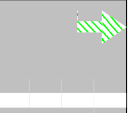



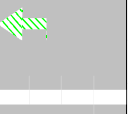
<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.8.2.1.</b> Itinerário não estabelecido				
<b>2.8.2.2.</b> Itinerário estabelecido, escorregamento activo				
<b>2.8.2.3.</b> Itinerário estabelecido, escorregamento activo e ocupado				
<b>2.8.2.4.</b> Itinerário estabelecido, escorregamento activo, via não controladas				
<b>2.8.2.5.</b> Itinerário estabelecido, escorregamento activo, via não controladas				

## 2.9. Blocos

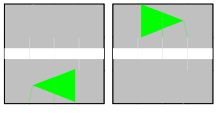
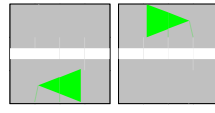
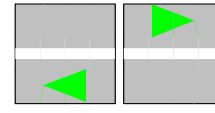

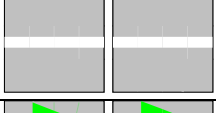
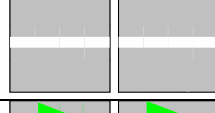


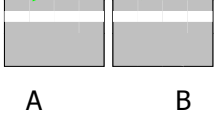
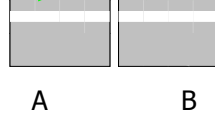

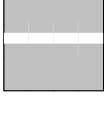
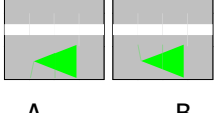
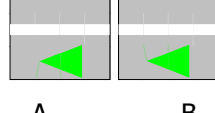
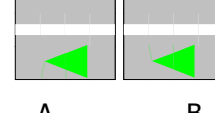

### 2.9.1. Bloco externo

<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.9.1.1.</b> Após arranque do sistema (encravamento)				
<b>2.9.1.2.</b> Pedido de orientação do bloco, da esquerda para a direita				
<b>2.9.1.3.</b> Orientação do bloco, da esquerda para a direita				
<b>2.9.1.4.</b> Pedido de orientação do bloco, da direita para a esquerda				

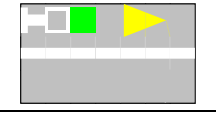
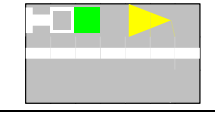
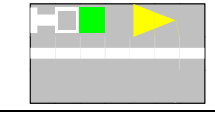
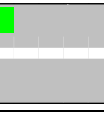


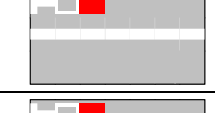




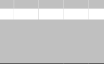


<b>2.9.1.5.</b> Orientação do bloco, da direita para a esquerda				
<b>2.9.1.6.</b> Orientação do bloco, da esquerda para a direita em avaria.				
<b>2.9.1.7.</b> Orientação do bloco, da direita para a esquerda em avaria.				

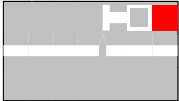
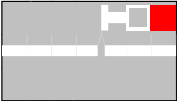
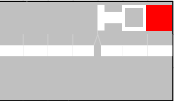
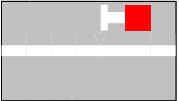









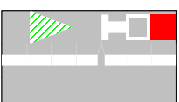
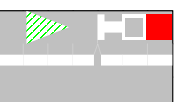



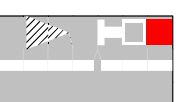
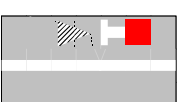



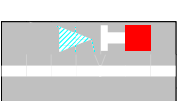

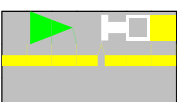
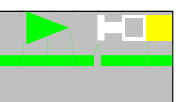
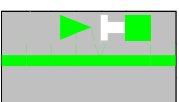






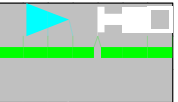
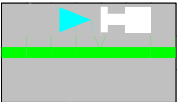
## 2.9.2. Bloco interno

<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.9.2.1.</b> Após arranque do sistema (bloco a 2 estados)				
<b>2.9.2.2.</b> Bloco não orientado (bloco a 2 estados)				
<b>2.9.2.3.</b> Bloco orientado da esquerda para a direita, de A para B	 A B	 A B	 A B	
<b>2.9.2.4.</b> Bloco orientado da esquerda para a direita, de B para A	 A B	 A B	 A B	

## 2.9.3. Bloco telefónico

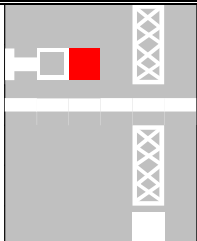
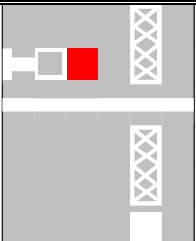
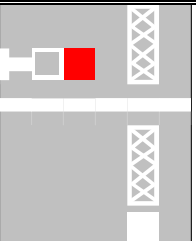
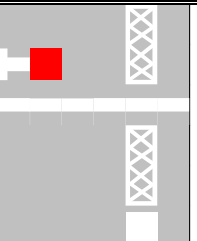
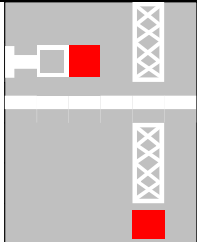
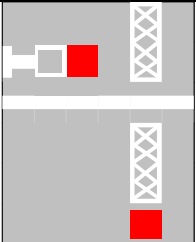
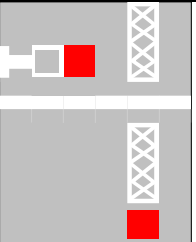
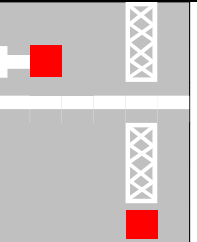
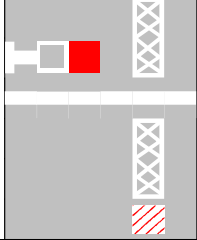
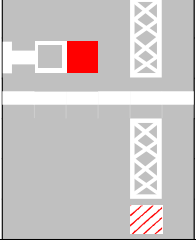
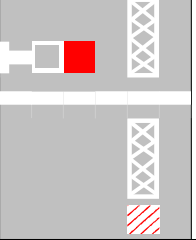
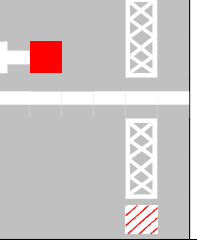
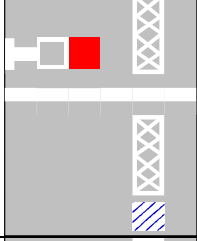
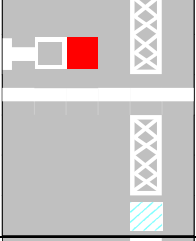
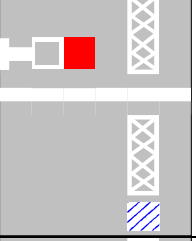
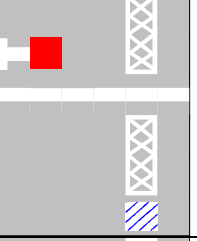
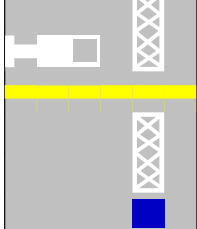
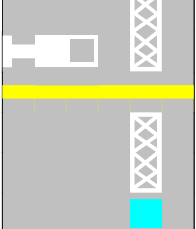
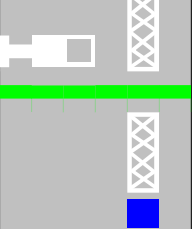
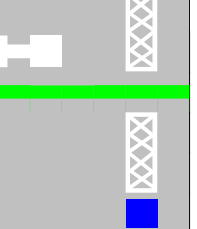
<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.9.3.1.</b> Autorização de avanço e comando CBT activo				
<b>2.9.3.2.</b> Sem autorização de avanço entrada				
<b>2.9.3.3.</b> Autorização de avanço e comando ABT activo				

#### 2.9.4. Itinerários em sequência

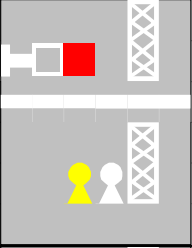
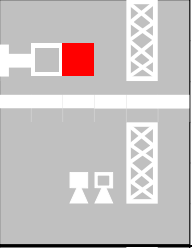
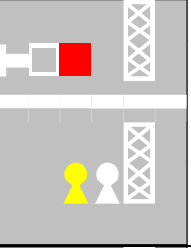
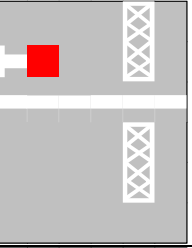
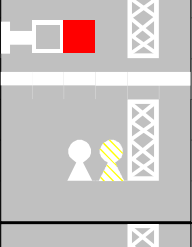
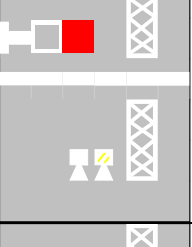
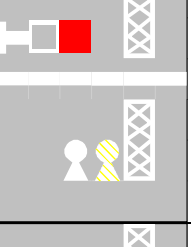
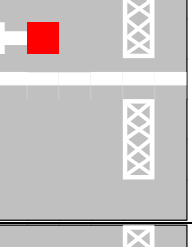
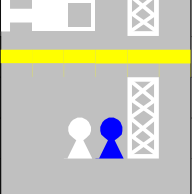
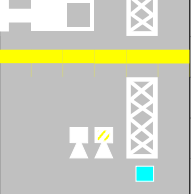
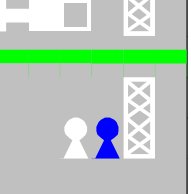
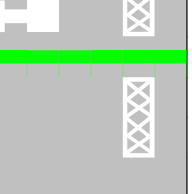
<i><b>Descrição de Estado</b></i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.9.4.1.</b> Sem pedido de itinerário				
<b>2.9.4.2.</b> Pedido de itinerário em curso, prévio a AIT				
<b>2.9.4.3.</b> Itinerário autorizado				
<b>2.9.4.4.</b> Pedido de estabelecimento de itinerário de circulação em sequência				
<b>2.9.4.5.</b> Pedido de estabelecimento de itinerário de marcha à vista em sequência				
<b>2.9.4.6.</b> Pedido de estabelecimento de itinerário de manobras em sequência				
<b>2.9.4.7.</b> Estabelecimento de itinerário de circulação em sequência				
<b>2.9.4.8.</b> Estabelecimento de itinerário de marcha à vista em sequência				
<b>2.9.4.9.</b> Estabelecimento de itinerário de manobras em sequência				

## 2.10. Portões

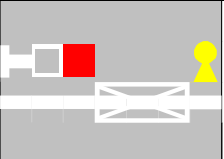
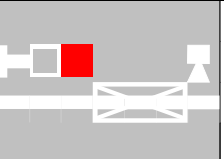
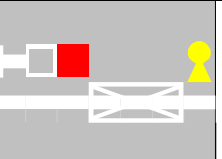
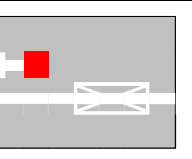
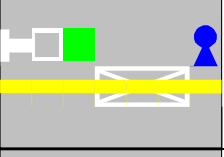
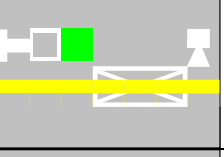
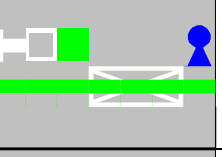
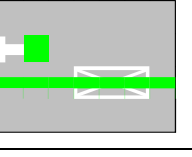
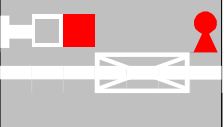
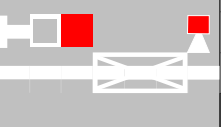
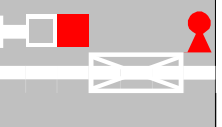
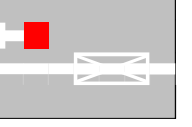
### 2.10.1. Portões eléctricos

<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.10.1.1.</b> Portão aberto				
<b>2.10.1.2.</b> Portão fechado				
<b>2.10.1.3.</b> Portão com indicação de avaria				
<b>2.10.1.4.</b> Portão aberto e não encravado				
<b>2.10.1.5.</b> Portão aberto e encravado, itinerário estabelecido				

### 2.10.2. Portões com transportadores de chaves

<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.10.2.1.</b> Portão fechado				
<b>2.10.2.2.</b> Portão aberto				
<b>2.10.2.3.</b> Portão aberto e itinerário estabelecido				

### 2.11. Pontes móveis

<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.11.1.1.</b> Ponte não movimentada				
<b>2.11.1.2.</b> Ponte não movimentada, itinerário estabelecido				
<b>2.11.1.3.</b> Ponte movimentada				

## 2.12. Níveis de comando











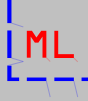
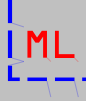








### 2.12.1. Comando central e comando local

<i>Descrição de Estado</i>	HIC&CC			VME			CTC / SCC			Painel Panorâmico		
<b>2.12.1.1.</b> Estação em modo central CC		CC			CC			CC			CC	
<b>2.12.1.2.</b> Estação em modo local CL		CL			CL			CL			CL	
<b>2.12.1.3.</b> Estação em modo central CC oferecendo / pedindo modo local		CC CL			CC CL			CC CL			CC CL	
<b>2.12.1.4.</b> Estação em modo local CL oferecendo / pedindo modo central		CC CL			CC CL			CC CL			CC CL	









### 2.12.2. Zona de manobra local centralizada

<i>Descrição de Estado</i>	HIC&CC			VME			CTC / SCC			Painel Panorâmico		
<b>2.12.2.1.</b> Zona "Z1" em comando central		Z1 CC			Z1 CC			Z1 CC			Z1 CC	
<b>2.12.2.2.</b> Zona "Z1" em comando local		Z1 CL			Z1 CL			Z1 CL			Z1 CL	
<b>2.12.2.3.</b> Zona "Z1" em comando local oferecendo / pedindo modo central		Z1 CL CC			Z1 CL CC			Z1 CL CC			Z1 CL CC	
<b>2.12.2.4.</b> Zona "Z1" em comando central oferecendo / pedindo modo local		Z1 CL CC			Z1 CL CC			Z1 CL CC			Z1 CL CC	




### 2.12.3. Zona de manobra local

<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.12.3.1.</b> Zona comandada pela mesa de comando ou pelo CTC				
<b>2.12.3.2.</b> Zona comandada pela mesa de comando ou pelo CTC, comando solicitado pela mesa de manobras				
<b>2.12.3.3.</b> Zona comandada pela mesa de manobras				
<b>2.12.3.4.</b> Zona comandada pela mesa de manobras, comando oferecido à mesa de comando ou ao CTC				
<b>2.12.3.5.</b> Comando da zona de manobras tomado pela mesa de comando ou pelo CTC, temporização em curso				

### 2.12.4. Comando de acesso ao parque





<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.12.4.1.</b> Acesso ao parque autorizado				
<b>2.12.4.2.</b> Acesso ao parque não autorizado, ACAP estabelecido				



### 2.12.5. Linhas sem catenária

<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.12.5.1.</b> Indicação de ausência de catenária ou corrente eléctrica em determinadas vias		Não Aplicável		

### 2.13. Indicações de falhas ou avarias




#### 2.13.1. Indicações do estado do sistema de energia

<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.13.1.1.</b> Alimentação de energia da rede em ordem	CTxxx	CT	CTxxx	NINE
<b>2.13.1.2.</b> Alimentação de energia da rede em falha, energia socorrida de catenária	CTxxx	CT 	CTxxx	NINE
<b>2.13.1.3.</b> Baterias não estão em descarga	BTxxx	BAT	BTxxx	NINE
<b>2.13.1.4.</b> Baterias em descarga, ou avaria do sistema de carga	BTxxx	BAT 	BTxxx	NINE
<b>2.13.1.5.</b> Sem problemas nos equipamentos de energia	CExxx	CE	CExxx	NINE
<b>2.13.1.6.</b> Avaria no carregador de baterias, ou a não carregar	CExxx	CE 	CExxx	NINE
<b>2.13.1.7.</b> UPS em ByPass	CExxx	CE 	CExxx	NINE






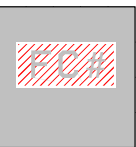
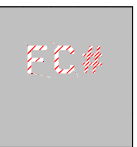



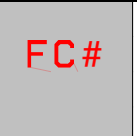

<b>2.13.1.8.</b> Combustível suficiente, para o motor gerador	NCxxx	NC	NCxxx	NINE
<b>2.13.1.9.</b> Nível combustível baixo, para o motor gerador	NCxxx	NC 	NCxxx	NINE
<b>2.13.1.10.</b> Motor gerador parado	MGxxx	MG	MGxxx	NINE
<b>2.13.1.11.</b> Motor gerador em funcionamento	MGxxx	MG 	MGxxx	NINE

Nota: As indicações em branco significam a ausência de indicação (transparente).

### 2.13.2. Indicações de falhas e diagnóstico

<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.13.2.1.</b> Encravamento parado	EE#	EE#	EE#	NINE
<b>2.13.2.2.</b> Encravamento em arranque	EE#	EE# 	EE#	NINE
<b>2.13.2.3.</b> Encravamento em serviço	EE#		EE#	NINE
<b>2.13.2.4.</b> Não existe a ocorrência de falhas normais	FN#		FN#	NINE
<b>2.13.2.5.</b> Falha normal active nova falha ou falha solucionada e por reconhecer	FN# 	FN# 	FN#	NINE
<b>2.13.2.6.</b> Falha normal activa e reconhecida (CAA)	FN#	FN#	FN#	NINE






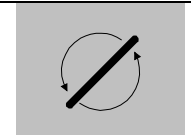
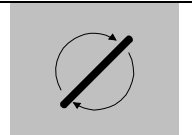






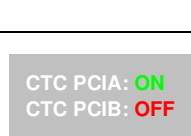
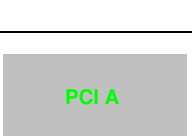





<b>2.13.2.7.</b> Não existe a ocorrência de falhas críticas				
<b>2.13.2.8.</b> Falha normal activa nova falha ou falha solucionada e por reconhecer				
<b>2.13.2.9.</b> Falha normal activa e reconhecida (CAA)				

Nota: a referência # corresponde ao número do encravamento onde ocorre a falha.

## 2.14. Indicações diversas

### 2.14.1. Comunicação entre a mesa local e CTC / CCO

<i><b>Descrição de Estado</b></i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.14.1.1.</b> Teste de comutação canais mesa comando			Não Aplicável	Não Aplicável
<b>2.14.1.2.</b> Mira de cores				Não Aplicável
<b>2.14.1.3.</b> Indicador de actividade		Não Aplicável		Não Aplicável
<b>2.14.1.4.</b> Comunicação entre a mesa de comando e o encravamento				Não Aplicável
<b>2.14.1.5.</b> Não há comunicação entre a mesa de comando e o encravamento				Não Aplicável
<b>2.14.1.6.</b> Comunicação entre a mesa de comando e o CTC / CCO		Não Aplicável		Não Aplicável

<b>2.14.1.7.</b> Comunicação entre a mesa de comando e o CTC / CCO, ambos os canais desligados	CTC PCIA: <b>OFF</b> CTC PCIB: <b>OFF</b>	Não Aplicável	PCI A PCI B FUNDO CINZENTO	<b>NINE</b> IMAGEM NÃO ACTUAL
<b>2.14.1.8.</b> Mesa de comando local apenas com um canal activo, não permitindo comandos de nível	EQUIPAMENTO MONOCANAL	DIS	PCI A	Não Aplicável
<b>2.14.1.9.</b> Mesa de comando local bloqueada para utilização				Não Aplicável

### 2.15. Estado de PII (programação informática de itinerários)

<i><b>Descrição de Estado</b></i>	HIC&CC	VME	CTC	Painel Panorâmico
<b>2.15.1.1.</b> PII da estação em manual (desligado)	Não Aplicável	Não Aplicável	<b>PII</b>	<b>PII</b>
<b>2.15.1.2.</b> PII da estação em automático (ligado)	Não Aplicável	Não Aplicável	<b>PII</b>	<b>PII</b>
<b>2.15.1.3.</b> PII do comboio em automático (ligado)	Não Aplicável	Não Aplicável	<b>123456</b>	<b>123456</b>
<b>2.15.1.4.</b> PII do comboio em manual (desligado)	Não Aplicável	Não Aplicável	<b>123456</b>	<b>123456</b>
<b>2.15.1.5.</b> PII do comboio em semi-automático	Não Aplicável	Não Aplicável	<b>123456</b>	<b>123456</b>

### 2.16. Representação do número de comboio

<i><b>Descrição de Estado</b></i>	HIC&CC	VME	CTC / CCO	Painel Panorâmico
<b>2.16.1.1.</b> Comboio em manual	Não Aplicável	Não Aplicável	<b>15700</b>	<b>15700</b>

<b>2.16.1.2.</b> Comboio em automático	Não Aplicável	Não Aplicável	15700	15700
<b>2.16.1.3.</b> Comboio em manual e com atraso temporal	Não Aplicável	Não Aplicável	1570001	1570001
<b>2.16.1.4.</b> Comboio em manual e com avanço temporal	Não Aplicável	Não Aplicável	1570005	1570005
<b>2.16.1.5.</b> Comboio em automático e com atraso temporal	Não Aplicável	Não Aplicável	1570001	1570001
<b>2.16.1.6.</b> Comboio em automático e com avanço temporal	Não Aplicável	Não Aplicável	1570005	1570005
<b>2.16.1.7.</b> Comboio em semi-automático e com atraso temporal	Não Aplicável	Não Aplicável	1570001	1570001
<b>2.16.1.8.</b> Comboio em semi-automático e com avanço temporal	Não Aplicável	Não Aplicável	1570005	1570005





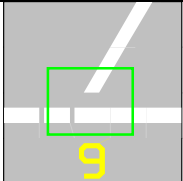
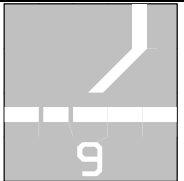
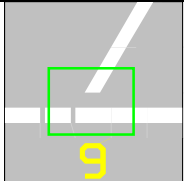
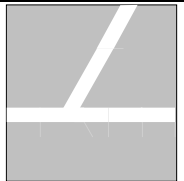

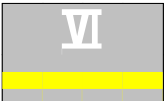
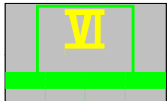
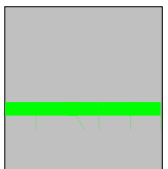
## 2.17. Mensagens associadas aos níveis de comando

<i>Descrição de Estado</i>	HIC&CC / VME	CTC / SCC
<b>2.17.1.1.</b> Comandos Nível 0 (tipo ABA, IE)	COMANDO ESPECIAL. Repetir EXEC ou tecla S	COMANDO ESPECIAL. Repetir EXEC
<b>2.17.1.2.</b> Comandos Nível 1 (tipo ARI, NCE, etc.)	COMANDO DE RECURSO. Confirmar premindo CE1 ou tecla F12	COMANDO DE RECURSO. Confirmar premindo CE1 ou tecla F1
<b>2.17.1.3.</b> Comandos Nível 2 (tipo AEI, CNCE, etc.)	COMANDO DE EMERGÊNCIA. Confirmar premindo EXEC ou tecla S  CONFIRMAR ACTUANDO TECLA EXTERIOR	JANELA de Palavra-chave + COMANDO DE EMERGÊNCIA. Confirmar premindo CE2 ou tecla F2

**Mensagens suplementares após a realização do 1º EXEC**

<b>2.17.1.4.</b> Comando nível 0 Itinerário sobre o bloco telefónico	<b>COMANDO ESPECIAL.</b> Itinerário especial com CANTONAMENTO TELEFÓNICO e comando CBT.  Repetir EXEC ou tecla S	<b>COMANDO ESPECIAL.</b>  Itinerário especial com CANTONAMENTO TELEFÓNICO e comando CBT. Repetir EXEC
<b>2.17.1.5.</b> Comando nível 0 Itinerário sobre a contravia	<b>COMANDO ESPECIAL.</b> Itinerário sobre a contravia. Repetir EXEC ou tecla S	<b>COMANDO ESPECIAL.</b> Itinerário sobre a contravia. Repetir EXEC
<b>2.17.1.6.</b> Comando nível 0 Itinerário sobre a via sem catenária	<b>COMANDO ESPECIAL.</b> Itinerário sobre linhas sem catenária. Repetir EXEC ou tecla S	<b>COMANDO ESPECIAL.</b> Itinerário sobre linhas sem catenária. Repetir EXEC
<b>2.17.1.7.</b> Comando nível 1 Itinerário sobre o bloco telefónico (CBT)	<b>COMANDO DE RECURSO:</b> Comando do BLOCO TELEFÓNICO após procedimentos regulamentares. Confirmar premindo CE1 ou tecla F12	<b>COMANDO DE RECURSO:</b> Comando do BLOCO TELEFÓNICO após procedimentos regulamentares. Confirmar premindo CE1 ou tecla F1
<b>2.17.1.8.</b> Comando nível 1 Itinerário do bloco telefónico (ABT)	<b>COMANDO DE RECURSO:</b> Autorização do BLOCO TELEFÓNICO após procedimentos regulamentares. Confirmar premindo CE1 ou tecla F12	<b>COMANDO DE RECURSO:</b> Autorização do BLOCO TELEFÓNICO após procedimentos regulamentares. Confirmar premindo CE1 ou tecla F1
<b>2.17.1.9.</b> Comando nível 1 Anulação do bloco telefónico (AABT)	<b>COMANDO DE RECURSO:</b> Anulação da Autorização do BLOCO TELEFÓNICO. Confirmar premindo CE1 ou tecla F12	<b>COMANDO DE RECURSO:</b> Anulação da Autorização do BLOCO TELEFÓNICO. Confirmar premindo CE1 ou tecla F1

## 2.18. Marcações de Elementos

<i>Descrição de Estado</i>	HIC&CC	VME	CTC / SCC	Painel Panorâmico
<b>2.18.1.1.</b> Sinal de circulação (assinalado como destino de itinerário)				
<b>2.18.1.2.</b> Agulha assinalada como escorregamento alternativo				
<b>2.18.1.3.</b> Secção de via livre (como destino de itinerário ou escorregamento alternativo)				

## 2.19. Considerações gerais

As indicações associadas a falhas de encravamento são complementadas com avisos sonoros.

As indicações associadas a pedidos de bloco, pedidos de itinerário e alteração do nível de comando são também complementadas com avisos acústicos / sonoros.